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DEPARTMENT OF THE ARMY

Procurement Programs



DITIC QUALITY INSPECTED &

Committee Staff Procurement Backup Book FY 1999 Budget Estimates PROCUREMENT OF AMMUNITION, ARMY

APPROPRIATION

DISTRIBUTION STATEMENT A
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	Procurement Program and Financing	curement of Ammunition, Financing (in Thousands	Arm			REPORT 21	00 FEB 98 PAGE 315
t t 1 1 1 1		Budget Plan (amounts for actions programed)		: 2 2	1 1 1 2 2 2 1 1 1 1 1 1	ligati	1 1 1 1 1 1 1 1 1 1 1
Identif	Identification code 21-2034-0-1-051		1998 est.	1999 est.	1997 actual	1998 est.	1999 est.
00.0101	Program by activities: Direct program: Ammunition Ammunition production base support	891,228	41, 18	27. 81.	. ღი	11,61	
00.9101	Total direct program	42	1,019,802	1,008,855	1,122,955	1,015,560	985,146
01.0101	Reimbursable program	606' 2	50,60	436,090	6	52,73	436,090
10.0001	Total	1,150,514	1,070,402	1,444,945	1,132,527	1,068,298	1,421,236
11.0001114.0001117.0001	Offsetting collections from: Offsetting collections from: Federal funds(-) Non-Federal sources(-) Recovery of prior year obligations	-5,129	-40,600	-419,090	-4,566 -2,506 -14,127	-40,600	-419,090
21.4002 21.4003 21.4009 22.2001		-25,736 -635 -800	-5,000		-213,808 -25,736 -800	-244,449	-246,553
24.4002 24.4003 25.0001	Unobligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budget Unobligated balance expiring	5,000			40		o.
39.0001	Budget authority	1,121,869	1,014,802	1,008,855	1,121,869	1,014,802	1,008,855
0.00	Budget authority: Appropriation Appropriation rescinded (unob bal) Reduction pursuant to P.L. 105-56 (Transferred to other accounts (-) Transferred from other accounts	1,089,354	1,037,202 -5,000 -17,400	1,008,855			1,008,855
43.0001	Appropriation (adjusted)	1,121,869		1,008.855	1, 121, 869	1,014,802	1,008,855
71.0001 72.1001 72.4001 74.1001 77.0001 78.0001	. (Y				4444-0-	1,017,698 -13,477 1,618,162 13,477 -1,525,281	985, 146 -13, 477 1, 525, 281 13, 477 -1, 347, 633
90.0001	Outlays (net)		. •		1,165,438	1,110,579	1,162,794

Procurement of Ammunition, Army Object Classification (in Thousands of dollars) SUMMARY

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REPORT 21

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	acion code 21-2034-0-1-031	1997 actual	1998 est.	1999 est.
121.001 122.001 125.101	Direct obligations: Travel and transportation of persons Transportation of things Advisory and assistance services	76	30 8,102 166	36
125.201 126.001 131.001	Other services with the private sector Supplies and materials Equipment	707,035 405,944 959	638,262 366,429 2,571	618,912 355,319 3,022
199.001	199.001 Total Direct obligations	1,122,955	1,015,560	985,146
222.001	Reimbursable obligations: 222.001 Transportation of things		8	21
225.201 226.001 231.001	Other services with the private sector Supplies and materials Equipment	5,580 3,992	101 52,634	777 435,285 7
299.001	Total Reimbursable obligations	9,572	52,738	436,090
999.901	999.901 Total obligations	1,132,527	1,068,298	1,421,236

PROCUREMENT OF AMMUNITION, ARMY

APPROPRIATION LANGUAGE

training devices; expansion of public and private plants, including ammunition facilities authorized by Section 2854, Title 10, United States in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools For construction, procurement, production, and modification of ammunition, and accessories therefor; specialized equipment and Code, and the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and for the foregoing purposes; \$1,008,855,000 in fiscal year FY1999 to remain available for obligation until September 30, 2001.

COMPARISON OF FY 1998 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY 1998/FY 1999 BUDGET WITH THE FY1998 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1999 BUDGET SUMMARY OF REQUIREMENTS (In Millions of Dollars)

Appropriation Procurement of Ammunition, Army	FY 1998 Requirements Per FY1998/FY1999 Budget	FY 1998 Requirements Per FY1999 Budget	Increase or (Decrease)
Activity 1 - Ammunition	694	841	147
Activity 2 - Ammunition Production Support	197	179	(18)
Reimbursable Program	19	51	(10)
	952	1,071	129

EXPLANATION BY ACTIVITY

Activity 1 - Ammunition - The net increase (\$+147.0) resulted from congressional adjustments to CTG 5.56mm AT (\$+1.4); CTG 7.62mm AT (\$+3.0), CTG 50 Cal AT (\$+0.2); CTG 20mm AT (\$+0.3); CTG 40mm AT (\$+5.0); CTG 120mm FRTC XM931 (\$8.0); CTG, 120mm M865 (\$7.7), CTG, Arty, 105mm DPICM XM915 (\$10.0); Proj, Arty, 155mm M795 (\$36.0); Fuze, Arty M767 (\$15.0); Mine, VOLCANO, Mortar HE M934 (\$9.0); 120mm Illum XM930 (\$3.0); Ctg, 120mm HEAT-MP-T (\$8.0); 120mm TP-T M831 (\$9.8); 120mm TPCSCS-T M87 (\$17.0); Bunker Defeating Munition (\$8.0); and Rocket, Hydra 70, AT (\$25.2).

A proportionate reduction was made for economic assumptions (-\$4.9), Section 8106 (-\$1.5), and Section 8043 (\$12.8) of the FY1998 Appropriations Act

Industrial Facilities (-\$21.0), Conventional Ammo Demil (-\$13.0), and Armament Retooling and Manufacturing Support (ARMS) Activity 2- Ammunition Production Support- the net decrease (-\$18.1) resulted from congressional adjustments to Provision of +\$20.0). A proportionate reduction was made for economic assumptions (-\$1.1), Section 8106 (-\$0.3), and Section 8043 (\$2.7) of the FY1998 Appropriations Act.

COMPARISON OF FY 1998 PROGRAM REQUIREMENTS AS REFLECTED IN THE FY 1999 BUDGET WITH THE FY1999 PROGRAM REQUIREMENTS AS SHOWN IN THE FY 1999 BUDGET SUMMARY OF REQUIREMENTS (In Millions of Dollars)

Appropriation Procurement of Ammunition, Army	FY 1998 Requirements Per FY1999 Budget	FY 1999 Requirements Per FY1999 Budget	Increase or (Decrease)
Activity 1 - Ammunition	841	827	(14)
Activity 2 - Ammunition Production Support	179	182	က
Reimbursable Program	25	436	385
	1,071	1,445	(11)

EXPLANATION BY ACTIVITY

Activity 1 = Reductions in activity 1 (ammunition hardware) include a slight reduction in the percent of training requirement supported and a reduction of the number of modern war reserve items being procured from 5 of 14 modern items to 4 of 14 modern items. FY98 activity 1 received a \$147.0M Congressional increase in FY98.

Activity 2 =Increases in activity 2 reflect a combination of congressional adjustments in FY 1998 and increases in conventional ammunition demilitarization funding to cover increased rates being charged by the Army Working Capital Fund.

Beginning in FY 1999, the Conventional Ammunition Working Capital Fund will no longer accept orders. Army ammunition will be funded Reimbursable Program = FY99 reimbursable program increase reflects Army acceptance of other services ammunition orders. on a direct basis; orders from other services will be accepted by the Army on a reimbursable basis.

Index for PROCUREMENT OF AMMUNITION, ARMY

Blin	Nomenclature	SSN	Filename	Page Number
	HIGHT PAGE 1			1-1-0
•	CT CANDI	00200	A0132150 00D	
_	C.I.G. 3.36IMIM, ALL ITPES	00.000	40132138.935	-
က	CTG, 7.62MM, ALL TYPES	E02000	40612159.99P	43
2	CTG, 9MM, ALL TYPES	EA3000	41450159.99P	63
ေမ	CTG. 45 CAL. ALL TYPES	ER8110	41540159.99P	72
	CTG. 50 CAL, ALL TYPES	E08000	41722159.99P	74
· •	CTG CAL .50 API MK211 MOD 0	F47400	42234159.99P	94
ത	CTG, 20MM, ALL TYPES	E08900	42382159.99P	66
9	CTG, 25MM, ALL TYPES	E08200	42650160.99P	101
-	CTG, 30MM, ALL TYPES	ER8120	42938159.99P	118
12	CTG, 40MM, ALL TYPES	ER8001	43222159.99P	129
13	CTG MORTAR 60MM 1/10 PRAC M766	E72000	40684119.99P	145
4	CTG MORTAR 60MM ILLUM M721/M767	E70400	41266119.99P	150
15	CTG MORTAR 60MM SMOKE WP M722	E70500	41848159.99P	155
16	CTG MORTAR 60MM HE M720	E67303	42431159.99P	161
17	CTG 81MM INFRARED (IR) ILLUM XM816	E90000	44770119.99P	165
. 8	CTG MORTAR 120MM FULL RANGE PRACTICE M931	E25507	46796119.99P	169
19	CTG MORTAR 120MM HE M934 W/MO FUZE	E25501	47086119.99P	175
50	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ	E25503	48250119.99P	180
21	CTG MORTAR 120MM SMOKE M929 W/MO FUZE	E25504	48832119.99P	185
55		E78001	44262114.99P	190
23	CTG 120MM HEAT-MP-T M830A1	E78007	45822114.99P	195
24	CTG TANK 120MM TP-T M831/M831A1	E73300	47382159.99P	199
25	CTG TANK 120MM TPCSDS-T M865	E73400	47902159.99P	204
56	CTG ARTY 75MM BLANK M337A1	E15200	40532159.99P	209
27	CTG ARTY 105MM DPICM XM915	E53500	41178132.99P	215

Index for PROCUREMENT OF AMMUNITION, ARMY

Blin	Nomenclature	SSN	Filename	Page Number
ć				
53	PROJ ARTY 155MM SMOKE WP M825	E67800	43972159.99P	220
႙	PROJ ARTY 155MM HE M795	E66800	45700114.99P	221
31	PROJ ARTY 155MM SADARM M898	E66300	46550114.99P	226
32	PROJ ARTY 155MM HE M107	E27601	46767159.99P	233
33	FUZE ARTY ELECT TIME	E53500	41516132.99P	238
36	MINE AT M87 (VOLCANO)	E72195	47922122.99P	243
37	WIDE AREA MUNITIONS	E78100	49622122.99P	247
38	BUNKER DEFEATING MUNITION (BDM)	E88400	42246132.99P	252
39	ROCKET, HYDRA 70, ALL TYPES	E37300	43246159.99P	259
40	DEMOLITION MUNITIONS, ALL TYPES	E55400	42790160.99P	287
41	GRENADES, ALL TYPES	E34000	44582160.99P	312
42	SIGNALS, ALL TYPES	E46900	46038160.99P	334
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44	AMMO COMPONENTS, ALL TYPES	EB0016	40684159.99P	358
45	CAD/PAD ALL TYPES	EA0003	42430159.99P	364
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DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

QTV COST QT COST QT QT <t< th=""><th></th><th></th><th></th><th>(DOLS)</th><th></th><th></th><th>(Thous</th><th>(Thousands of Dollars)</th><th></th><th></th></t<>				(DOLS)			(Thous	(Thousands of Dollars)		
CTG. 5:80MM ARLI TYPES (ER8120) CTG. 2:80MM ALL TYPES (ER8001) A CTG. 3:80MM A	NO NO	ITEM NOMENCLATURE	٥	FY 99 UNIT		FY 97		FY 98		FY 99
***SMALL/MEDIUM CALIBER AMMUNITION**				COST	QTY	COST	QTY	COST	QTY	COST
	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)
CTG, 5.56MM, ALL TYPES (E00700) A 1,465 1,436 1,563 1,583 1,1938 1,583 1,1933 1,1939 1,1939 1,1939 1,1939 1,1939 1,1939 1,1939 1,1939 1,1939 4,135 4,043 1,1949 4,135		**SMALL/MEDIUM CALIBER AMMUNITION**							<u> </u>	
CTG 5.56MM ARMOR PIERCING M995 A 1,485 1,986 1,563 1,933 1,1965 CTG, 762MM, ALL TYPES (E02000) A 2,088 1,030 1,196 1,181 1,949 CTG, 562MM, ALL TYPES (EA3000) A A 2,088 1,030 1,181 1,949 CTG, 50 CAL, ALL TYPES (ER8110) A A 2,088 1,030 4,947 1,949 CTG, 50 CAL, ALL TYPES (ED8000) A A 329 2,045 2,045 1,949 CTG, 20MM, ALL TYPES (ED8000) A A 329 2,045 2,045 1,949 CTG, 20MM, ALL TYPES (ER8120) A A 329 2,045 86,189 CTG, 30MM, ALL TYPES (ER8001) A A 32,128 30,503 CTG, 30MM, ALL TYPES (ER8001) A 32,128 30,503 SUB-ACTIVITY TOTAL A 189,940 2,24,153	₩.	CTG, 5.56MM, ALL TYPES (E00700)	⋖			40,695		63,531		91,620
CTG. 762MM, ALL TYPES (E02000) A 2,088 1,030 1,996 1,181 1,949 CTG. 762MM, ALL TYPES (EA3000) A 2,088 1,030 1,996 1,181 1,949 CTG. 9MM, ALL TYPES (ER8110) A A 4,947 4,947 72 CTG. 45 CAL, ALL TYPES (ER800) A A 4,947 19,724 CTG. 50 CAL, SO API MK211 MOD 0 A A 79,892 2,045 286 1,949 CTG. 20MM, ALL TYPES (ER8000) A A 73,892 86,189 CTG, 20MM, ALL TYPES (ER8001) A 73,892 86,189 CTG, 20MM, ALL TYPES (ER8001) A 73,892 86,189 CTG, 40MM, ALL TYPES (ER8001) A 32,952 86,189 SUB-ACTIVITY TOTAL 189,940 224,153	8	CTG 5.56MM ARMOR PIERCING M995 (F47600)	⋖	1,465	1,438	1,996		1,933	1,314	1,926
CTG.762MM ARMOR PIERCING XM993 A 2,088 1,030 1,181 1,949 (F47500) CTG, 9MM, ALL TYPES (ER8110) A 4,135 4,135 CTG, 45 CAL, ALL TYPES (ER8110) A 4,947 19,724 CTG, 50 CAL, ALL TYPES (E08000) A 329 2,045 286 1,949 CTG, 20 API MX21 MOD 0 A 329 2,045 286 1,949 CTG, 20 MM, ALL TYPES (E08200) A 77,892 86,189 CTG, 25 MM, ALL TYPES (ER8021) A 73,892 86,189 CTG, 20 MM, ALL TYPES (ER8001) A 73,892 86,189 CTG, 40 MM, ALL TYPES (ER8001) A 33,128 30,503 SUB-ACTIVITY TOTAL 189,340 224,153	ო	CTG, 7.62MM, ALL TYPES (E02000)	∢			11,965		4,043		10,463
CTG, 9MM, ALL TYPES (EA3000) A 999 CTG, 45 CAL, ALL TYPES (ER8110) A 4,947 CTG, 50 CAL, ALL TYPES (E08000) A 329 2,045 CTG CAL, 50 API MK211 MOD 0 A 300 CTG, 20MM, ALL TYPES (E08000) A 75,892 CTG, 25MM, ALL TYPES (ER8120) A 12,977 CTG, 30MM, ALL TYPES (ER8001) A 32,128 CTG, 40MM, ALL TYPES (ER8001) A 33,128 SUB-ACTIVITY TOTAL 189,940 7	4	CTG 7.62MM ARMOR PIERCING XM993 (F47500)	∢	2,088	1,030	1,996		1,949	922	1,926
CTG, .45 CAL, ALL TYPES (ER8110) A 4,947 CTG, .50 CAL, ALL TYPES (E08000) A 329 2,045 286 CTG CAL .50 API MK211 MOD 0 (F47400) A 329 2,045 286 CTG, 20MM, ALL TYPES (E08900) A 79,892 CTG, 25MM, ALL TYPES (ER8120) A 79,892 CTG, 30MM, ALL TYPES (ER8001) A 12,977 CTG, 40MM, ALL TYPES (ER8001) A 32,128 SUB-ACTIVITY TOTAL 189,940 78	လ	CTG, 9MM, ALL TYPES (EA3000)	∢			666		4,135	-	1,907
CTG, 50 CAL, ALL TYPES (E08000) A 4,947 CTG CAL. 50 API MK211 MOD 0 (F47400) A 329 2,045 286 CTG, 20MM, ALL TYPES (E08900) A 79,892 CTG, 25MM, ALL TYPES (ER8020) A 79,892 CTG, 30MM, ALL TYPES (ER8001) A 12,977 CTG, 40MM, ALL TYPES (ER8001) A 32,128 SUB-ACTIVITY TOTAL 189,940 7	9	CTG, .45 CAL, ALL TYPES (ER8110)	∢					72		8
CTG CAL .50 API MK211 MOD 0 A 329 2,045 286 (F47400) CTG, 20MM, ALL TYPES (E08200) A 79,892 CTG, 25MM, ALL TYPES (ER8120) A 12,977 CTG, 30MM, ALL TYPES (ER8001) A 32,128 CTG, 40MM, ALL TYPES (ER8001) A 189,940	_	CTG, .50 CAL, ALL TYPES (E08000)	∢			4,947		19,724		18,544
CTG, 20MM, ALL TYPES (E08900) A 79,892 CTG, 25MM, ALL TYPES (E08120) A 12,977 CTG, 30MM, ALL TYPES (ER8120) A 32,128 CTG, 40MM, ALL TYPES (ER8001) A 189,940 Z	ω	CTG CAL .50 API MK211 MOD 0 (F47400)	∢		329	2,045				
CTG, 25MM, ALL TYPES (E08200) CTG, 30MM, ALL TYPES (ER8120) CTG, 40MM, ALL TYPES (ER8001) SUB-ACTIVITY TOTAL 189,940 79,892 79,892 78,892 18,977	თ	CTG, 20MM, ALL TYPES (E08900)	∢			300				
CTG, 30MM, ALL TYPES (ER8120) CTG, 40MM, ALL TYPES (ER8001) SUB-ACTIVITY TOTAL 189,940	5	CTG, 25MM, ALL TYPES (E08200)	∢			79,892		86,189		59,618
CTG, 40MM, ALL TYPES (ER8001) SUB-ACTIVITY TOTAL 189,940	=	CTG, 30MM, ALL TYPES (ER8120)	∢			12,977		10,125		9,061
189,940	12	CTG, 40MM, ALL TYPES (ER8001)	∢			32,128		30,503		35,618
		SUB-ACTIVITY TOTAL				189,940		224,153		230,685
									·	

DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

			(DOLS)			(Thous	(Thousands of Dollars)		
NO.	ITEM NOMENCLATURE	Ω	FY 99 UNIT		FY 97		FY 98		FY 99
			COST	QΤΥ	COST	QTY	COST	QTY	COST
€	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)
	MORTAR AMMUNITION								
13	CTG MORTAR 60MM 1/10 PRAC M766 (E72000)	∢		ω	5,209				
4	CTG MORTAR 60MM ILLUM M721/M767 (E70400)	∢		28	13,127				
15	CTG MORTAR 60MM SMOKE WP M722 (E70500)	∢				23	4,638		375
16	CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)	∢	436,765		1,400			47	20,528
11	CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)	ω	936,600					10	998'6
8	CTG MORTAR 120MM FULL RANGE PRACTICE M931 (E25507)	∢	409,309	127	50,907	78	31,704	26	39,703
19	CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)	⋖	881,424			43	38,036	33	29,087
70	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)	ω		13	25,953	2	2,933		
21	CTG MORTAR 120MM SMOKE M929 W/MO FUZE (E25504)	<		27	34,936				
	SUB-ACTIVITY TOTAL				131,532		77,311		690'66
						7			

DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

		r	(DOIS)			(Thous	(Thousands of Dollars)		
LINE	ITEM	٥	FY 99 UNIT		FY 97		FY 98		FY 99
į			COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)
	TANK AMMUNITION								
22	CTG 120MM APFSDS-T M829A2/M829E3 (E78001)	∢	4,866,000	59	103,488	21	71,286	7	9,732
23	CTG 120MM HEAT-MP-T M830A1 (E78007)	4		Ø	30,943	က	7,821		
24	CTG TANK 120MM TP-T M831/M831A1 (E73300)	∢	575,104	69	54,502	93	60,635	105	986'09
25	CTG TANK 120MM TPCSDS-T M865 (E73400)	∢	541,308	211	115,406	192	116,676	240	129,914
	SUB-ACTIVITY TOTAL	, , , , , , , , , , , , , , , , , , ,			304,339		256,418		200,032
	ARTILLERY AMMUNITION			·					
56	CTG ARTY 75MM BLANK M337A1 (E15200)	∢	46,058			70	2,898	34	1,566
27	CTG ARTY 105MM DPICM XM915 (E53500)	Ω		ις.	13,475	4	9,775		
28	CTG ARTY 105MM HERA M913 (E53700)	∢		**					-532
59	PROJ ARTY 155MM SMOKE WP M825 (E67800)	∢			11,631		12,304		
30	PROJ ARTY 155MM HE M795 (E66800)	∢		84	39,868	74	35,193		
31	PROJ ARTY 155MM SADARM M898 (E66300)	ω	102,803	009	93,589	507	66,385	550	56,542
32	PROJ ARTY 155MM HE M107 (E27601)	∢	206,854				1	124	25,650
	SUB-ACTIVITY TOTAL		:		158,563		126,555	10	84,290

DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

	г		(DOLS)			(Thous	(Thousands of Dollars)		
S S	ITEM NOMENCLATURE	0	FY 99 UNIT		FY 97		FY 98		FY 99
		!	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)
	ARTILLERY FUZES								
33	FUZE ARTY ELEC TIME M767 (E61200)	∢		-	309	62	14,664		
34	FUZE MULTI OPTION (ER8017)	æ	757,000					7	1,514
	SUB-ACTIVITY TOTAL				309		14,664		1,514
	MINES								
35	MINE, TRAINING, ALL TYPES (EA0800)	æ			1,926				973
36	MINE AT M87 (VOLCANO) (E72195)	∢		4	14,973		16,618		
37	WIDE AREA MUNITIONS (E78100)	ω	148,076	70	9,982	215	14,980	65	9,625
	SUB-ACTIVITY TOTAL				26,881		31,598		10,598
	ROCKETS			-					
38	BUNKER DEFEATING MUNITION (BDM) (E88400)	ω			9,982	•	7,821		
39	ROCKET, HYDRA 70, ALL TYPES (E37300)	∢			27,252		36,431		126,055
	SUB-ACTIVITY TOTAL				37,234		44,252		126,055
	OTHER AMMUNITION								
40	DEMOLITION MUNITIONS, ALL TYPES (E55400)	<			16,376		18,345		8,800
4	GRENADES, ALL TYPES (E34000)	80			4,150		14,309		21,382
42	SIGNALS, ALL TYPES (E46900)	∢			1,292		7,686		12,985

DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

			(DOLS)			(Thousa	(Thousands of Dollars)		
NO NO	NOMENCLATURE	₽	FY 99 UNIT		FY 97		FY 98		FY 99
			COST	QTŸ	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)
43	SIMULATORS, ALL TYPES (E51200)	<			2,767		4,471		4,651
	SUB-ACTIVITY TOTAL				24,585		44,811		47,818
	MISCELLANEOUS								
44	AMMO COMPONENTS, ALL TYPES (EB0016)	∢			1,161		4,715		7,241
45	CAD/PAD ALL TYPES (EA0003)	⋖			1,000		1,063		2,320
94	ITEMS LESS THAN \$2 MILLION (EA0055)	∢			4,221		801	·	1,009
47	AMMUNITION PECULIAR EQUIPMENT (EA0575)	∢			5,169		8,433		10,368
48	ITEMS LESS THAN \$2 MILLION (AMMO) (EL4000)				925				
49	FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)	∢			5,332		6,410		6,174
50	CLOSED ACCOUNT ADJUSTMENTS (EA0004)				37				
	SUB-ACTIVITY TOTAL				17,845		21,422		27,112
	ACTIVITY TOTAL				891,228		841,184		827,163

DEPARTMENT OF THE ARMY FY 99 PROCUREMENT PROGRAM

Appropriation: **AMMUNITION**

Activity: 2. **AMMUNITION PRODUCTION BASE SUPPORT**

		T	(DOLS)			(Thous	(Thousands of Dollars)		
N O	ITEM NOMENCLATURE	٥	FY 99 UNIT		FY 97		FY 98		FY 99
			COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)
	PRODUCTION BASE SUPPORT								
51	PROVISION OF INDUSTRIAL FACILITIES (EP1000)				49,732		24,299		47,660
52	COMPONENTS FOR PROVE-OUT (EA0054)				449				
53	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)				21,140		16,375		15,362
55	MAINTENANCE OF INACTIVE FACILITIES (EP1500)				22,110		22,485		15,826
55	CONVENTIONAL AMMO DEMILITARIZATION (EP1800)				95,428		91,029		97,983
26	ARMS INITIATIVE (EP2500)				29,918		24,430		4,861
22	POST RETIREMENT BENEFITS (EP5000)				32,600				
	SUB-ACTIVITY TOTAL				251,377		178,618		181,692
	ACTIVITY TOTAL				251,377		178,618		181,692
	APPROPRIATION TOTAL				1,142,605		1,019,802		1,008,855
							· · · · · ·		
		ᅦ							

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ıre:					
ä	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					CTG, 5.5	CTG, 5.56MM, ALL TYPES (E00700)	(00200		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
				٧								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	1526.0	81.5	58.2	40.7	63.5	91.6	95.3	98.7	1.001	97.3	0.0	2252.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1526.0	81.5	58.2	40.7	63.5	91.6	95.3	98.7	100.1	97.3	0.0	2252.9
Initial Spares												
Total Proc Cost	1526.0	81.5	58.2	40.7	63.5	91.6	95.3	98.7	100.1	97.3	0:0	2252.9
Fiyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

This budget line includes 5.56MM ALL TYPES.

pon alysis	Α	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	idget Activity/9 ENT OF AMML Ammunition	vity/Serial No: MMUNITION / 1 / ion		P-1 Line Iter CTG, 5	P.1 Line Item Nomenclature: CTG, 5.56MM, ALL TYPES (E00700)	ES (E00700)		Weapon System Type:	Туре:	Date: Febru	February 1998
	Ω		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD		Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
	+	000\$	×1000	\$	\$000	×1000	\$	000\$	×1000	ક્ક	\$000	×1000	\$
CTG 5.56MM BALL M193 CTG 5.56MM BLANK M200 CTG 5.56MM BLANK M200 LINKED F/SAW CTG 5.56MM BALL M855 LINKED F/SAW CTG 5.56MM 4 BALL M855/1 TRACER M856 CTG 5.56MM BALL M855 F/M16A2 CTG 5.56MM TRACER M856 F/M16A2 CTG 5.56MM RIFLE LAUNCHER, NON-LETHAL, XM95		7122 4304 700 45189 850	18742 7550 115870	0.38 0.57 0.39 0.57	3845 999 19087 16764	2560 36704 42984	0.27 0.39 0.52 0.39	3933 14617 4281 37241 3459	18460 41278 9582 102149 6509	0.21 0.35 0.45 0.36 0.53	14487 15096 12169 5506 9897 28679 2526	64009 83163 45497 16518 27514 97594 6287	0.23 0.18 0.27 0.36 0.29 0.40
TOTAL		58165	·		40695			63531			91620		
,												784,114	

Exhibit P-5, Weapon System Cost Analysis

		Exhibit P-4	Exhibit P-40, Budget Item		Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	erial No:			e e		P-1 Item Nomenclature:	Jre:					
<u>a</u>	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	ımunition					CTG 5.5	CTG 5.56MM BALL M193 (E00701)	(10701)		•
Program Elements for Code B Items.	ems:			Code:	Other Related Program Elements:	am Elements:						
				¥								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	12765522			14318		64009	35201	35201	35201	35201		12984653
Gross Cost	891.7	0.0	0.0	3.8	0.0	14.5	8.1	8.2	8.3	8.4	0.0	943.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	891.7	0.0	0.0	3.8	0.0	14.5	8.1	8.2	8.3	8.4	.0.0	943.0
Initial Spares												
Total Proc Cost	891.7	0.0	0.0	3.8	0.0	14.5	8.1	8.2	8.3	8.4	0:0	943.0
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The 5.56mm Ball M193 is an anti-personnel cartridge containing a 56 grain, gilding metal-jacketed bullet with a lead antimony core. It is issued for use in the M16/M16A1 series rifle. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1975

Exhibit P-5, Weapon	Γ	Appropriation/ Budget Activity/Serial No:	idget Activity.	/Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	1 / IONITION / 1 /	•	CTG 5.	CTG 5.56MM BALL M193 (E00701)	93 (E00701)	A066				February 1998
	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD		aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	oţ.	UnitCost
AMMINITION HABDINABE		000\$	×1000	\$	\$000	×1000	\$	\$000	×1000	ક્ક	\$000	×1000	ક
Propellant WC844 (LB)		·			2700 90 340	14318 18 59	0.19 5.03 5.74				12482 445	80	0.20 5.57
SubTotal AMMO Hardware					3130						12927		
Production Support Costs Production Engineering Quality Assurance Interim Transportation Industrial Stock Support					141 4 4 34 30 125 381						1287 7 7 7 259		
SubTotal Prod. Support					718						1560		
TOTAL					3845		0.27				14487		0.23

Item No. 1 Page 4 of 42 4

Exhibit P-5, Weapon System Cost Analysis

			ā					Date:		
	Exhibit P-5a, Budget Procurement History and Planning	History ar	nd Planning					Ľ	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 5	CTG 5.56MM BALL M193 (E00701)	3 (E00701)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	s	Now?	Avail	
I nad Assemble and Pack										
FY 94	Olin Corp (Lake City AAP)	SS/CPAF 10C	200	Nov-93	Oct-94	30233	0.19			
	Independence MO	1				,	,			(
78 Y	Olin Corp (Lake City AAP) Independence MO	SS/CPAF 10C	20	Mar-97	78-50	14318	0.1g	\es		Dec-96
FY 99	Olin Corp (Lake City AAP)	SS/CPAF IOC	201	Nov-98	Oct-99	64009	0.20	×es		Oct-98
	Independence MO									
Box Metal M2A1										
FY 94	Brockway Standard	C/FP	100	Jan-94	Jul-94	38	5.68			
	Homerville, GA									
FY 97	Brockway Standard	C/FP	201	May-97 Aug-97	Aug-97	19	5.03	Yes		Feb-97
· ·	Homerville, GA	į		-	0	6	i			
66 \J.	TBS	C/FP	201	Jan-99	66-Inc	08 8	5.57	≺es		Oct-98
Propellant WC844 (LB)							•			
FY 94	Olin Corp	SS/FP	100	Aug-94	Sep-94	128	5.98			
	St. Marks, FL					•	·			
FY 97	Olin Corp	SS/FP	201	Jul-97	Sep-97	29	5.74	Yes		Apr-97
	St. Marks, FL				•					
₽∀ 99	Plant Procured	Α/N	N/A	∀ N	₹ Z	A/N	A/A	Α N		∢ Z
						•				
REMARKS: TRS - To Be Selected									1	

S: TBS - To Be Selected

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į		Exhibit P-4	Exhibit P-40, Budget Item		Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature:	ure:					
•	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					CTG 5.5	CTG 5.56MM BLANK M200 (E01100)	E01100)		
Program Elements for Code B Items;	ems:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	3044377	89381			18460	83163	86131	85559	85559	85559		3578189
Gross Cost	272.1	19.7	0.0	0.0	3.9	15.1	13.9	14.0	14.2	14.3	0.0	367.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	272.1	19.7	0.0	0.0	3.9	15.1	13.9	14.0	14.2	14.3	0.0	367.2
Initial Spares												
Total Proc Cost	272.1	19.7	0:0	0.0	3.9	15.1	13.9	14.0	14.2	14.3	0.0	367.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

attachment on the weapon is required for firing automatic or semi-automatic weapons. The cartridge can be identified by the rose petal (rosette crimp) closure on the mouth and by the identification knurl about one-half inch from the base of the cartridge. The mouth of the cartridge is sealed and identified with lacquer. This item is This cartridge is used for simulated firing in training maneuvers and for saluting purposes in the M16 Series Rifle and Squad Automatic Weapon. A blank-firing Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Prior to 1977

Exhibit P-5, Weapon Ammo Cost Analysis	⋖	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /	dget Activity NT OF AMN	/Serial No: :UNITION / 1 /		P-1 Line Iten CTG 5.5	P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 (E01100)	00 (E01100)		Weapon System Type:		Date: Februa	February 1998
	ġ		Ammunidon EV oc			EV 07			EV 98			EV 99	
Ammunition Cost Flements	2 8	TotalCost	oft	UnitCost	TotalCost	of A	UnitCost	TotalCost	oty.	UnitCost	TotalCost	oft S	UnitCost
	T	\$000	×1000	€>	\$000	×1000	\$	\$000	×1000	\$	\$000	×1000	\$
AMMUNITION HARDWARE Load, Assemble and Pack Box Metal M2A1 Propellant WC814 (LB)								3179 94 121	18460 16 18	0.17 5.74 6.55	12408	83163 74	5.57
SubTotal AMMO Hardware	· · · · · · · · · · · · · · · · · · ·							3394			12820		\ AA.
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support								347 8 39 24 121			2010 4 4 256		
SubTotal Prod. Support			·					ଉ ୧୨ ଜ	·	·	2276		
TOTAL								3933		0.21	15096		0.18

								Date:		
Exhibit	Exhibit P-5a, Budget Procurement I	History ar	rement History and Planning				÷	u.	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type.	m Type.		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 5.5	CTG 5.56MM BLANK M200 (E01100)	00 (E01100	_	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	Now?	Avail	
Load, Assemble and Pack										
FY 94	Olin Corp (Lake City AAP)	SS/CPAF 10C	00	Nov-93	Oct-94	90106	0.16			
FY 98	Olin Corp (Lake City AAP)	SS/CPAF IOC	10C	Mar-98	Oct-98	18460	0.17	Yes		Oct-97
FY 99	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF 10C	. 20	Nov-98	Oct-99	83163	0.15	×es		Oct-98
Box Metal M2A1		•				***				
FY 94	Brockway Standard Homerville, GA	C/FP	loc	Jan-94	Jul-94	8	5.68			
FY 98	TBS	C/FP	00	Mav-98	Sep-98	16	5.74			Oct-97
FY 99	TBS		IOC		Jul-99	74	5.57	Yes		Oct-98
Propellant WC814 (LB)										
FY 94	Olin Corp	SS/FP	00	Aug-94	Sep-94	92	5.98			
FY 98	Olin Corp	SS/FP	100	Aug-98	Sep-98	18	6.55	Yes		Oct-97
FY 99	ot. Marks, rL Plant Procured	N/A	N/A	N/A	A/N	N/A	N/A	N/A		N/A
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REMARKS:										

TBS - To Be Selected

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		Exhibit P-4	Exhibit P-40, Budget Item	_	Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No.	erial No:					P-1 Item Nomenclature:	ıre:					
<u>a.</u>	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					CTG 5.56MM BL	CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)	-/SAW (E01101)		
Program Elements for Code B Items:	ems:			Code:	Other Related Program Elements:	ram Elements:					:	
			•	∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	177469	14347	18742	2560	41278	45497	51548	45075	45075	45075		486666
Gross Cost	41.8	5.2	7.1	1.0	14.6	12.2	13.8	12.2	12.4	12.6	0:0	132.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	41.8	5.2	7.1	1.0	14.6	12.2	13.8	12.2	12.4	12.6	0.0	132.9
Initial Spares												
Total Proc Cost	41.8	5.2	7.1	1.0	14.6	12.2	13.8	12.2	12.4	12.6	0.0	132.9
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:							8					

round belts and loaded into a plastic ammunition container that attaches directly to the M249 Squad Automatic Weapon (SAW). Four plastic containers are packed in The 5.56mm blank M200 round is a standard blank cartridge currently used during training to simulate live-ammunition noises and flash. This round is linked in 200 a PA108 container. The M249 SAW is a lightweight, belt-fed, one-man operable machine gun. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-5, Weapon Ammo Cost Analysis	Api	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	udget Activity/S ENT OF AMMU Ammunition	Serial No: JNITION / 1 /		P-1 Line Iten CTG 5.56M	P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 LINKED F/SAW (F01101)	INKED F/SAW	5	Weapon System Type:	Туре:	Date: Febr	February 1998
- Ammunition	2		FY 96			FY 97			FY 98			FY 99	
Cost Elements co		TotalCost	ofy.	UnitCost	TotalCost	Qty	UnitCost	TotalCost	oty	UnitCost	TotalCost	ğ	UnitCost
A MANUAL AND THE PARTY BY	${f H}$	\$000	×1000	s,	\$000	×1000	ક્ક	\$000	×1000	\$	\$000	×1000	S
Awmoni ion hakbwake Load, Assemble and Pack Propellant WC814 (LB) Link M27		5149 122 329	18742 19 19492	0.27 6.50 0.02	767 15 39	2560 3 2624	0.30 5.83 0.02	11640 271 703	41278 41 42103	0.28 6.55 0.02	11729	45497	0.26
SubTotal AMMO Hardware		2600			821			12614	8.1.27300		11729		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		174 8 64 21 231 1024			8 - 9 8 B 9			1289 . 32 . 145 91			201		
SubTotal Prod. Support		1522			178			2003			044		
TOTAL		7122		0.38	666		0.39	14617		0.35	12169		0.27

Item No. 1 Page 14 of 42 14

Item No. 1 Page 15 of 42 15

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EAIIIDIL	-Ja, Dauget Froculement	ilstory ar	id i dining						February 1998	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type: ,		2-1 Line Item	P-1 Line Item Nomenclature:	·			
PROCUREMENT OF AMMUNITION / 1 / Ammunition					ິນ	TG 5.56MM BL	CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)	ED F/SAW		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QΤΥ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	€9	Now?	Avail	
oad Assemble and Pack										
FY 96	Olin Corp (Lake City AAP)	SS/CPAF IOC	00	Feb-96	Oct-96	18742	0.27			
FY 97	Independence, MO Olin Corp (Lake City AAP)	SS/CPAF 10C	20	Feb-97	Aug-98	2560	0.30	Yes		Dec-96
FY 98	Independence, MO Olin Corp (Lake City AAP)	SS/CPAF 10C	100	Jan-98	Oct-98	41278	0.28	×es		Oct-97
±+66 √3	Independence, MO Olin Corp (Lake City AAP)	SS/CPAF IOC	00	Nov-98	Oct-99	45497	0.26	Yes		Oct-98
	Independence, MO									,,,,,,
Propellant WC814 (LB)										-
FY 96	Olin Corp	SS/FP	00	Apr-96	Sep-96	10	6.50			
FY 97	St. Marks, FL Olin Corp	SS/FP	00	76-Inc	Dec-97	ю	5.83	≺es		May-97
FY 98	St. Marks, FL Olin Corp	SS/FP	00	Aug-98	Sep-98	4	6.55	Yes	•	Oct-97
8	St. Marks, Ft. Plant Procured	Ą Ż	A/N	Ą	¥ X	X X	A/N	Ž		
}										
Link M27 FY 96	Valentec Wells	C/FP	100	Apr-96	Aug-96	19492	0.02			
ļ.	Costa Mesa, CA	, ()	G.	70 41.1		7630	C	>		V 0.7
/6 \	Valentec vveils Costa Mesa. CA	L)	2	/e-lino	/6-dao	±207	20.0) 5.
FY 98	TBS	C/FP	100	Mar-98	Aug-98	42103	0.02	Yes		Oct-97
FY 99	Plant Procured	A/A	N/A	₹ Z	Y V	Ψ.X	A/N			 Ž
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***Complete Round TBS - To Be Selected REMARKS:

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FY 98 / 99 BUDGE I PRODUCTION SCHEDULE	֚֚֚֚֚֚֚֚֡֟֟֟֝֟֟֝֟֝֟֝֟֓֓֓֓֓֓֓֓֓֟֟֓֓֓֓֓֟֟֓֓֓֡֡֡֡֡֡֡֡֡֡	20 NO		Ì	ļ	1		วั	CIG 5.56MM BLANK MZ00 LINKED F/SAW (E01101)	AM BLA	NK MZ		<u> </u>	SAW	E0110	۔ ا	ı				ŀ	ľ	- 1	February 1998	8661	Ì		T
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		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet			Oate:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ure:					
PF	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	ımunition					CTG 5.56MM BA	CTG 5.56MM BALL M855 LINKED F/SAW (E04603)	/SAW (E04603)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements.	am Elements.						
				٧	·							
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	37885	491	7550		9582	16518	12038	12048	12048	12048		120208
Gross Cost	11.5	0.2	4.3	0.0	4.3	5.5	1.4	4.2	4.2	4.3	0.0	42.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11.5	0.2	4.3	0.0	4.3	5.5	4.1	4.2	4.2	4.3	0.0	42.6
Initial Spares												
Total Proc Cost	11.5	0.2	4.3	0.0	4.3	5.5	4.1	4.2	4.2	4.3	0.0	42.6
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The Squad Automatic Weapon (SAW) ball round, M855, has a steel, conical insert in the ogive of the bullet. This round will be linked in 200 round belts using the M27 link. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. This round is used primarily for training in areas where a fire hazard exists if the tracer round were to be used. FY 99 procurement goals.

TYPE CLASSIFICATION DATE:

1982

	Г	Appropriation/ Budget Activity/Serial No:	dget Activity	/Serial No:		P.1 Line Ite	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	IUNITION / 1 /	_	CTG 5.56	CTG 5.56MM BALL MB55 LINKED F/SAW (F046R3)	LINKED F/SAW				Febr	February 1998
Ammunition	₽		FY 96			FY 97	(2002)		FY 98			FY 99	
Cost Elements	8	TotalCost	Qty.	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Oty Oty	UnitCost	TotalCost	Qty	UnitCost
		\$000	×1000	↔	\$000	×1000	\$	\$000	×1000	↔	\$000	×1000	\$
AMMUNITION HARDWARE Load, Assemble and Pack Propellant WC844 (LB) Link M27		3039 194 128	7550 30 7739	0.40 6.42 0.02	·			3280 251 163	9582 38 9774	0.34 6.55 0.02	5349	16518	0.32
		Č						C					
Subiotal AMMO Hardware		3361						3694 4			9344		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support		104 3 3 13 168 168 168						378 9 42 27 27			46 4 107		·
SubTotal Prod. Support		943						282			157		
TOTAL		4304		0.57				4281		0.45	5506		0.33
				Item	Item No. 1 Page 19 of 42 19	of 42					Exhibit P-5, Weapon System Cost Analysis	Exh em Cost /	Exhibit P-5, ost Analysis

Item No. 1 Page 20 of 42 20

								Date:		
	Exhibit P-5a, Budget Procurement I	History ar	urement History and Planning					ű	February 1998	86
Appropriation / Budget Activity/Serial No:		Weapon System Type.	m Type:		P-1 Line Item	P-1 Line Item Nomenclature:				Γ
PROCUREMENT OF AMMUNITION / 1 / Ammunition					Ū	CTG 5.56MM B/	CTG 5.56MM BALL M855 LINKED F/SAW (E04603)	D F/SAW (=04603)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αту	Unit Cost	Specs	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	Now	Avail	
Load, Assemble and Pack			-							
FY 96	Olin Corp (Lake City AAP)	SS/CPAF IOC	100	96-unc	Oct-96	7550	0.40	*		
FY 98	Olin Corp (Lake City AAP)	SS/CPAF 10C	000	Jan-98	Oct-98	9582	0.34	Yes		Oct-97
FY 99	Independence, MO Olin Corp (Lake City AAP) Independence, MO	SS/CPAF 10C	200	Nov-98	Oct-99	16518	0.32	Yes		Oct-98
Propellant WC844 (LB)										
FY 96	Olin Corp	SS/FP	100	Sep-96	Sep-96	30	6.42			
FY 98	St. Marks, FL Olin Corp St. Marks, FL	SS/FP	100	Aug-98	Sep-98	88	6.55	≺es		Oct-97
FY 99	ot. Marks, PL Plant Procured	N/A	N/A	N/A	A/N	N/A	N/A	A/A		N A
Link M27 FY 96	Valentec Wells	C/FP	201	Sep-96	Sep-96	7739	0.05			
FY 98	Costa Mesa, CA TBS		<u>0</u> 0	m	Aug-98	9774	0.02	Yes		Oct-97
ה ה	Plant Procured	Ψ/N	N/A	A V	ĕ Z	A/A	A/Z	Y Y		 Ž
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REMARKS:										

TBS - To Be Selected

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Item No. 1 Page 22 of 42 22

Exhibit P-21, Production Schedule

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Jaie.		February 1998		
Appropriation / Budget Activity/Serial No.	srial No:					P-1 Item Nomenciature;	ıre:					
ā	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition				,	CTG 5.56MM 4 BAL	CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)	M856 F/S (E04604)		
Program Elements for Code B Items:	ims:			Code:	Other Related Program Elements:	am Elements:						
,				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	269226	18272		36704		27514	32000	37300	37700	37700		499416
Gross Cost	96.0	9.3	0.7	19.1	0:0	6.6	13.0	14.1	14.4	14.5	0.0	191.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	96.0	9.3	0.7	19.1	0.0	6.6	13.0	14.1	14.4	14.5	0:0	191.0
Initial Spares												
Total Proc Cost	96.0	9.3	0.7	19.1	0.0	6.6	13.0	14.1	14.4	14.5	0:0	191.0
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The M855 ball and M856 tracer rounds are linked for use in the lightweight, one-man operable M249 Squad Automatic Weapon (SAW). The ball round has a steel, conical insert in the ogive of the bullet, which increases helmet penetration substantially compared to the 5.56mm, M193 ball round. The tracer round M856 has a longer tracer column and an improved pyrotechnic mixture, which results in an increased daylight trace range compared to the 5.56mm M196 tracer round. The rounds are linked in a 200 round belt using the M27 link and are loaded into a plastic container which attaches directly to the M249 SAW. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

	Ì	Appropriation/ Budget Activity/Serial No.	dget Activity/	Serial No:		P-1 Line Iterr	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMI Ammunition	ONITION / 1 /		CTG 5.56MN	CTG 5.56MM 4 BALL M855/1 TRACER M856	TRACER M856				Febr	February 1998
Ammunition	Ω		FY 96			FY 97	173 (504004)		FY 98			FY 99	
Cost Elements	0	TotalCost	aty	UnitCost	TotalCost	Oţ,	UnitCost	TotalCost	Qty	UnitCost	TotalCost	oty	UnitCost
AMMINITION DABONABE		\$000	×1000	\$	\$000	×1000	ક	\$000	×1000	ઝ	11	×1000	\$
Load, Assemble and Pack Load, Assemble and Pack Propellant WC844 (LB) Link M27					14803 171 706 . 564	36704 29 121 37621	0.40 5.83 0.02				9737	27514	0.35
SubTotal AMMO Hardware					16244		100				9737		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge SubTotal Prod. Support					598 23 177 154 1891		M. M				84 4 4 160		
Nonrecurring													
Materiel Change		700			<u></u>								
Subtotal Nonrecurring		700											
וסואב	4	no,	1	1	19087	1	0.52				2686		0.36

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Exhibit	Exhibit P-5a, Budget Procurement I	History ar	urement History and Planning					F	February 1998	3
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2-1 Line Item !	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					СТВ	5.56MM 4 BA	CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)	R M856 F/	S (E04604)	-
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs Avail	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	Now	Avail	
Load. Assemble and Pack										
FY 95	Olin Corp (Lake City AAP)	SS/CPAF 10C		Dec-94	Feb-96	18449	0.37			_
	Independence, MO	1		;						
FY 95	Olin Corp (Lake City AAP)	SS/CPAF 10C	201	Dec-97	Oct-98	888	0.38			
FY 97	Independence, MO Olin Corp (Lake City AAP)	SS/CPAF IOC	20	Jan-97	Mav-97	36704	0.40	≺es		96-voN
	Independence, MO				•					
FY 99***	Olin Corp (Lake City AAP)	SS/CPAF 10C	100	Nov-98	Oct-99	27514	0.35	Yes	_	Oct-98
	Independence, MO				·					
	44.								_	
Propellant WC844T (LB)										
FY 95	Olin Corp	SS/FP	201	Ang-95	Jan-96	4	6.28			
	St. Marks, FL									
FY 95	Olin Corp	SS/FP	201	Aug-98	Sep-98	τ-	6.55			
	St. Marks, FL									
FY 97	Olin Corp	SS/FP	201	Mar-97	Apr-97	29	5.83	×es		Jan-97
	St. Marks, FL									-
FY 99	Plant Procured	ĕ Z	N/A	۷ Ž	ĕ Ž	Α/X	N/A	۷ Ž		۷ Ž
Propellant WC844 (LB)										
FY 95	Olin Corp	SS/FP	100	Aug-95	Jan-96	61	6.28			
	St. Marks, FL			,						
FY 95	Olin Corp	SS/FP	10C	Aug-98	Sep-98	n			•	
,	St. Marks, FL									
FY 97	Olin Corp	SS/FP	<u>0</u>	Mar-97	Apr-97	121	5.83	Yes		Jan-97
	St. Marks, FL									
FY 99	Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS:										

***Complete Round

Procuremer	and Plannin
Exhibit P-5A,	History

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	Eximple r-54, budget Procurement History and Planning	iistory ai	na Pianning					Fe	February 1998	80
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature.	Nomenclature				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTO	5.56MM 4 B/	CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)	ER M856 F/9	S (E04604)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΥTΩ	Unit Cost	Specs	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$		Avail	
Link M27 FY 95	Valentec Wells	C/FP	201	Dec-94	Jul-95	1919	0.02			
FY 95	Costa Mesa, CA Valentec Wells	C/FP	100	Mar-98 Aug-98	Aug-98	906	0.02			
FY 97	Costa Mesa, CA Valentec Wells	C/FP	100	Jan-97	Apr-97	37621	0.02	Yes		Nov-96
FY 99	Cost Mesa, CA Plant Procured	N/A	N/A	N/A	A/N	N/A	N/A	A/N	•	N/A
REMARKS:										

EY 98 / 99 BUDGET PRODUCTION SCHEDULE	COU	ION SC	HEDO	Щ			P-1 Item Nomenclature: CTG 5.56MM	omenclature: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)	lure: 6MM 4	BALL	W855/1	TRAC	ER M8	56 F/S	(E046(<u></u>			Date:	 			Febr	February 1998	868		
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		Exhibit P-40, Budget	0, Budget Ite	em Justific	Item Justification Sheet			j j		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	rre:					
¥ď.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					CTG 5.56MM	CTG 5.56MM BALL M855 FM16A2 (E04601)	\2 (E04601)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
				¥								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	697228	127443	115870	42984	102149	97594	130000	130000	130000	130000		1703268
Gross Cost	152.2	47.2	45.2	16.8	37.2	28.7	35.6	36.1	36.6	37.0	0.0	472.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	152.2	47.2	45.2	16.8	37.2	28.7	35.6	36.1	36.6	37.0	0.0	472.6
Initial Spares												
Total Proc Cost	152.2	47.2	45.2	16.8	37.2	28.7	35.6	36.1	36.6	37.0	0.0	472.6
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

round. This cartridge is identified by a green bullet tip and is intended for use against personnel and non-armored targets. This item is used in the M16A2 rifle. This The M855 ball has a steel conical insert in the ogive of the bullet which increases the helmet-penetration range substantially compared to the 5.56mm M193 ball item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	_	Appropriation/ Budget Activity/Serial No:	dget Activity,	Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:		^	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMI Ammunition	UNITION / 1 /		CTG 5.56M	CTG 5.56MM BALL M855 F/M16A2 (E04601)	M16A2 (E04601)				Febr	February 1998
	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
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Awwolniion hakbwake Load, Assemble and Pack Box Metal M2A1 Propellant WC844 (LB)		31714 794 3011	115870 141 463	0.27 5.62 6.50	12857 266 1002	42984 52 172	0.30 5.07 5.83	28745 715 2678	102149 125 409	0.28 5.74 6.55	25228 663	97594 119	0.26 5.57
SubTotal AMMO Hardware		35519			14125			32138	10-10-11		25891		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation		1101 50 408 135			670 20 154			3284 80 370 231			2258 2 10		
CAWCF Gain/Loss Surcharge		1483 6493	***		1661			1138			518		
SubTotal Prod. Support		9670			2639			5103			2788		
					1								
TOTAL		45189		0.39	16764		0.39	37241		0.36	28679		0.29

								Date:		
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory an	nd Planning						February 1998	86
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2-1 Line Item	P-1 Line Item Nomenclature:	:			Γ
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 5.56MI	CTG 5.56MM BALL M855 F/M16A2 (E04601)	116A2 (E(4601)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	Now	Avail	
Josef Manager I and Dack										
Load, Assemble and Tach	Olin Corp (Lake City AAP)	SS/CPAF 10C	201	Jan-96	Oct-96	115870	0.27			
	Independence, MO									
FY 97	Olin Corp (Lake City AAP)	SS/CPAF 10C	201	Jan-97	Oct-97	42984	0.30	≺es		Nov-96
16人 38	Independence, MO Olin Corp (Lake City AAP)	SS/CPAF IOC	20	Jan-98	Oct-98	102149	0.28	Yes		Oct-97
	Independence, MO									
FY 99	Olin Corp (Lake City AAP)	SS/CPAF 10C	201	Nov-98	Oct-99	97594	0.26	Yes		Oct-98
	Independence, MO									
Rox Metal M2A1										
F \ 96	Brockway Standard	C/FP	201	Jun-96	Sep-96	141	5.62			
	Homerville, GA				-					
FY 97	Brockway Standard	C/FP	100	May-97	Sep-97	25	5.07	Xes		Mar-97
	Homerville, GA		-							
FY 98	TBS	C/FP	00	Mar-98	Sep-98	125	5.74	Xes		Oct-97
FY 99	TBS	C/FP	201	Jan-99	96-Inc	119	2.57			Oct-98
Propellant WC844 (LB)										
FY 96	Olin Corp	SS/FP	20	Apr-96	Sep-96	463	6.50			
	St. Marks, FL			•						
FY 97	Olin Corp	SS/FP	၁ <u>၀</u>	70-Inc	Sep-97	172	5.83	≺es		May-97
0 C } L	St. Marks, FL	00/60	Ç	A10.010	Sen-08	007	c T	>		0.4-07
	St Marks Fl	-)	oo fin	2	2	9			5
FY 99	Plant Procured	N/A	N/A	N/A	A/N	N/A	N/A	N/A	N/A	N/A
REMARKS:										

TBS - To Be Selected

FY 98 / 99 BUDGET PRODUCTION SCHEDULE)))	TION SC	HED	JLE			P-1 Item Nomenclature:	Nomeno	slature: CTG 5	ature: CTG 5.56MM BALL M855 F/M16A2 (E04801)	BALL M	855 F/N	116A2	E0460	ء ا				Date:			Feb	February 1998	86		Γ
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		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature.	ure:					
ď	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	munition					CTG 5.56MM	CTG 5.56MM TRACER M856 F/M16A2 (E04602)	6A2 (E04602)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
				4								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	79269		1491		6059	6287	0809	8060	8060	8060		123816
Gross Cost	23.1	0.0	6.0	0.0	3.5	2.5	2.5	3.3	3.4	3.4	0.0	42.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.1	0.0	6.0	0.0	3.5	2.5	2.5	3.3	3.4	3.4	0.0	42.6
Initial Spares												
Total Proc Cost	23.1	0.0	6.0	0.0	3.5	2.5	2.5	3.3	3.4	3.4	0.0	42.6
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The M856 tracer round has a longer tracer column and an improved pyrotechnic mixture, which results in an increased daylight trace range compared to the 5.56mm M196 tracer round. This cartridge can be identified by an orange bullet tip and is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact. This item is used in the M16A2 rifle. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	get Activity	//Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	AUNITION / 1 /		CTG 5.6	CTG 5.56MM TRACER M856 F/M16A2	856 F/M16A2				Febr	February 1998
Ammunition	₽		FY 96			FY 97	(200.02)		FY 98			FY 99	
Cost Elements	8	TotalCost	Oty.	UnitCost	TotalCost	Qty.	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		000\$	×1000	s	\$000	×1000	\$	000\$	×1000	\$	000\$	×1000	ક
AMMUNITION HARDWARE Load, Assemble and Pack Box Metal M2A1 Propellant WC844T (LB)		614 11 39	1491 2 6	0.41 5.62 6.50				2768 47 171	6509 8 26	0.43 5.74 6.55	2375	6287	0.38 5.57
SubTotal AMMO Hardware		664						2986			2419		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		21 8 3 32 121						305 7 34 21 106			54 5 1 47		
SubTotal Prod. Support		186						473			107		
TOTAL		850		0.57				3459		0.53	2526	6	0.40

								Date:		
•	Exhibit P-5a, Budget Procurement History and Planning	History a	nd Planning						February 1998	968
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 5.56MN	CTG 5.56MM TRACER M856 F/M16A2 (E04602)	/M16A2 (E	04602)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Award Date Date of First	ΥTΩ	Unit Cost	Specs	Date Revsn	RFP Issue
Fiscal Years		and Type			Delivery	×1000	\$	Now?	Avail	
Load, Assemble and Pack										
FY 96	Olin Corp (Lake City AAP)	SS/CPAF 10C	201	Feb-96	Oct-96	1491	0.41			
FY 98	Olin Corp (Lake City AAP)	SS/CPAF 10C	100	Jan-98	Oct-98	6209	0.43	≺es		Oct-97
FY 99	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF 10C	0C	Nov-98	Oct-99	6287	0.38	≺es		Oct-98
Box Metal M2A1			·					·		
FY 96	Brockway Standard	С/FР	100	96-unr	Oct-96	7	5.62			
FY 98	TBS		100	Mar-98	Aug-98	œ	5.74			Oct-97
FY 99	TBS	C/FP	000	Jan-99	Jul-99	ω	5.57	Yes		Oct-98
Propellant WC844T (LB)										
FY 96	Olin Corp	SS/FP	100	Apr-96	Sep-96	9	6.50			
FY 98	Olin Corp	SS/FP	100	Aug-98	Sep-98	26	6.55	Yes		Oct-97
FY 99	St. Marks, FL Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		A/A
REMARKS:										

TBS - To Be Selected

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCTIO	N SCF	IEDUI						5	CTG 5.56MM TRACER M856 F/M16A2 (E04602)	56MM	TRAC	ER M8	56 F/N	116A2	(E046)	02)				<u> </u>	Cale:			Ŗ	bruary	February 1998		
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February 1998	'HAL, XM95 (E911		FY 2003		0.0		0.0	0.0	
	CTG 5.56mm RIFLE LAUNCHER, NON-LETHAL, XM95 (E91100)		FY 2002	265	6.7		6.7	6.7	
Oate:	5.56mm RIFLE LAL		FY 2001	250	6.5		6.5	6.5	
в			FY 2000	135	4.3		4.3	4.3	
	P-1 Item Nomenclature:	ım Elements:	FY 1999	06	3.3		3.3	3.3	
tion Sheet		Other Related Program Elements:	FY 1998	-	0.0		0.0	0.0	
Item Justification Sheet		Code:	FY 1997		0.0		. 0.0	0.0	
	nunition		FY 1996		0.0		0.0	0.0	
Exhibit P-40, Budget	MENT OF AMMUNITION / 1 / Ammunition		FY 1995		0:0		0.0	0.0	
_	MENT OF AM		or Years		0.0		0.0	0.0	

ppropriation / Budget Activity/Serial No:

ogram Elements for Code

Jus CY Adv Proc

Proc Qty Gross Cost The 5.56MM Non-Lethal round is a muzzie-launched ordnance, propelled by the use of an M195 grenade impulse cartridge. It is compatible with both the M16A2 and Impulse Cartridge. Ignition of the M195 Impulse Cartridge generates the gas energy to propel and disperse the rubber coated balls to a group target. The XM95 is a single shot disposable item. The item has not been transitioned to the SMCA and will be procured at actual cost beginning in FY 99. M4 Carbine. The item consists of a muzzle attaching launch tube and a packaged stack of rubber balls (XM95) for its payload. The launched payload is intended to momentarily distract/deter potential threat personnel. The Area Fire XM95 is an inert item, cylindrical in shape, with an overall length of 7 inches and a diameter of 2 be non-lethal, low hazard and non-shrapnel producing, which upon impact, generates a temporary trauma to the body with the intent to confuse, disorient and/or inches. The payload is 15 rubber coated steel balls, each being approximately 0.7 (~11/16) inches in diameter. Propulsive energy is provided by using an M195

JUSTIFICATION:

Wpn Sys Proc U/C DESCRIPTION:

otal Proc Cost

Flyaway U/C

Vet Proc (P-1)

nitial Spares

The FY 99 procurement will provide friendly forces with the capability to enforce a standoff distance from a crowd of belligerents at a range of 30-80 meters without using deadly force. There are currently no non-lethal munitions for the M16A2 and M4 weapon systems.

TYPE CLASSIFICATION DATE:

2nd Quarter 1998

Exhibit P-40,

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	idget Activity	//Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature:		Ĺ	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREME	ENT OF AMA	PROCUREMENT OF AMMUNITION / 1 /		CTG 5.5	CTG 5.56mm RIFLE LAUNCHER, NON-	CHER, NON-				Febr	February 1998
Amminifica	٥		EV 96				LETHAL, XM95 (E91100)	91100)	26 72				
Cost Elements	8	TotalCost	aţ¢	UnitCost	TotalCost	ĝ	UnitCost	TotalCost	24°	UnitCost	TotalCost	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Initoot
	Į	\$000	Each	\$	\$000	Fach	67	000\$	Fach	₩.	*OOO	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Omicosi Paragraphic
AMMUNITION HARDWARE XM95 Non-Lethal Munition M195 Grenade Cartridges PA108 Containers Case, Small Arms											2240 150 30 30 25		24.89 1.50 10.00 6.94
SubTotal AMMO Hardware											2445		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Repackaging Cost											300 100 100 30 31		
SubTotal Prod. Support											645		
COST - Nonrecurring Initial Production Test M195 Startup Cost											150		
SubTotal COST-Nonrecurring											170		
TOTAL											3260	<u>,</u>	33.27
	1												

Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					Date:	February 1998	89
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type: .		-1 Line Item ≀	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTG 5.5	16mm RIFLE L	CTG 5.56mm RIFLE LAUNCHER, NON-LETHAL, XM95 (E91100)	ETHAL, XI	A95 (E911	(00
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αтУ	Unit Cost	Specs Avail	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	s	_	Avail	
XM95 Non-Lethal Munition FY 99	Alliant Techsystems, MN	ብ G	ARDEC	Nov-98	66-InC	00006	24.89			
M195 Grenade Cartridges FY 99	Lake City AAP, MO	CPFF	00	Jan-99	96-unc	100000	1.50	<u>,</u>		
PA108 Containers FY 99	Various	C/FP	000	Mar-99	Jun-99	3000	10.00			
Case, Small Arms FY 99	Various	FFP	00	Mar-99	99-unf	3600	6.94		i de annui	
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REMARKS:										

FY 1998 / FY 1999 BUDGET PRODUCTION SCHEDULE	PRO	DUCTIC	N SC	HEDUL	ш		P-1 Iten	P-1 flem Nomenclature: CTG 5.58MM RIELF LAUNCHER NONJETHAL XMGS (F01100)	clature); 2 F F 1	ON: A	2 1 1	2	Į H	χWα	(F01,	٤			Date:				40	4000	g		
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XM95 Non-Lethal Munitions	7	66	٧	06	0	06			\vdash	-	_					-	_		L	L	L			<u> </u>	8	30	R	
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Exhibit P-40,	Budget Item Justification Sheet

Exhibit P-40, Budget Item Justification Sheet Appropriation / Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition Program Elements for Code B Items: Prior Years FY 1995 FY 1996 FY 1999 FY 2000 FY 2001									Date:				
Pt Hem Nomenclature: Code: Other Related Program Elements: Other Related Program Elements: Other Related Program Elements: 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.0 15.0 15.0 15.0 15.0 15			Exhibit P-4	0, Budget It		ation Sheet					February 1998		
1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.0 15.0 15.0 15.0 15.0 15	Appropriation / Budget Activity/Se.	rial No:					P-1 Item Nomenclati	ıre:					
Prior Years FY 1995 FY 1996 FY 1999 FY 2000 FY 2001 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6	Ä.	ROCUREMENT OF AN	MMUNITION / 1 / Am	ımunition					CTG, 7.6	CTG, 7.62MM, ALL TYPES (E02000)	E02000)		
Prior Years FY 1995 FY 1996 FY 1996 FY 2000 FY 2001 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 N: 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6	Program Elements for Code B Iter	ins:				Other Related Progi	ram Elements:						
1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 15.6 15.6 15.6 15.6 15.6 15.6 15.6		Prior Years	FY 1995	FY 1996		FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.6 1296.8 12.0 4.0 10.5 15.0 15.6 1296.8 12.0 4.0 10.5 15.0 15.6	Proc Qty												
1296.6 25.0 9.3 12.0 4.0 10.5 15.0 12.0 12.0 10.5 15.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12	Gross Cost	1296.6	25.0	6.3	12.0	4.0	10.5	15.0	15.6	15.9	16.1	0:0	1420.0
1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.0 12.0 4.0 10.5 15.0 15.0 12.0 4.0 10.5 15.0 15.0 15.0 15.0 15.0 15.0 15	Less PY Adv Proc												
1296.6 25.0 9.3 12.0 4.0 10.5 15.0 15.0 12.0 4.0 10.5 15.0 15.0 12.0 4.0 10.5 15.0 15.0 15.0 15.0 15.0 15.0 15	Plus CY Adv Proc												
1296.6 25.0 9.3 12.0 4.0 10.5 15.0 JIC ON:	Net Proc (P-1)	1296.6	25.0	9.3	12.0	4.0	10.5	15.0	15.6	15.9	16.1	0.0	1420.0
1296.6 25.0 9.3 12.0 4.0 10.5 15.0 JIC NC ON: 0.0 10.5 15.0 <td>Initial Spares</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Initial Spares												
Flyaway U/C Flyaway U/C Wpin Sys Proc U/C DESCRIPTION:	Total Proc Cost	1296.6	25.0	9.3	12.0	4.0	10.5	15.0	15.6	15.9	16.1	0.0	1420.0
Wpn Sys Proc U/C DESCRIPTION:	Flyaway U/C												
DESCRIPTION:	Wpn Sys Proc U/C												
	DESCRIPTION:												

This budget line includes 7.62MM ALL TYPES.

Exhibit P-5, Weapon	Γ	Appropriation/ Budget Activity/Serial No:	iget Activity/	Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:		Í	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMU	UNITION / 1 /		CTG, 7.	CTG, 7.62MM, ALL TYPES (E02000)	:S (E02000)				Febru	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
S	CD	L	Qty	UnitCost	TotalCost	Q ty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	oty.	UnitCost
	П	000\$	×1000	s	\$000	×1000	ક	\$000	×1000	\$	\$000	×1000	\$
TOTAL		3916 5361 9277	9475	0.00	3205	5723	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2933 477 633 4043	904 986 986	0.56	4096 5747 48 572 10463	9859 17493 320	0.42
					2			2					

		Exhibit P-4	Exhibit P-40, Budget Ite	tem Justific	m Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	trial No:					P-1 Item Nomenclature:	ure:					
ā.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					CTG 7.62MM	CTG 7.62MM BALL M80 LINKED/M13 (E02003)	A13 (E02003)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	169471	6537	9475	5723	5194	6586	8155	8152	8152	8152		238870
Gross Cost	47.2	3.3	5.4	3.2	2.9	4.1	3.5	3.5	3.6	3.6	0.0	80.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.2	3.3	5.4	3.2	2.9	4.1	3.5	3.5	3.6	3.6	0.0	80.3
Initial Spares												
Total Proc Cost	47.2	3.3	5.4	3.2	2.9	4.1	3.5	3.5	3.6	3.6	0.0	80.3
Fiyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

This cartridge is for use in the Machine Gun Series M60, M73, M219, and M240. The straight ball M80 configuration is used in support of training. The bullet consists of a gilding-metal steel jacket with a lead-antimony slug. The cartridge case is brass and the bullet is unpainted. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

t P-5, ∖	¥	Appropriation/ Budget Activity/Serial No:	dget Activity	'Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:		2	Weapon System Type:	Туре:	Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	UNITION / 1 /		CTG 7.6	CTG 7.62MM BALL M80 LINKED/M13	LINKED/M13	•			Febru	February 1998
Ammunition	₽		FY 96			FY 97	(5002003)		FY 98			FV 99	
Cost Elements	CD	TotalCost	Ωţλ	UnitCost	TotalCost	aty	UnitCost	TotalCost	ģ	UnitCost	TotalCost	oty	UnitCost
TO SWITCH INCITING BINGS	H	\$000	×1000	\$	\$000	×1000	S	\$000	×1000	\$	\$000	×1000	8
Alminon HARDWAKE Load, Assemble and Pack Propellant WC846 (LB) Link M13		247 24 12	545 4 557	0.45 6.50 0.02	2394 230 109	5723 39 5837	0.42 5.83 0.02	2174 235 113	5194 36 5298	0.42 6.55 0.02	4013	9859	0.41
SubTotal AMMO Hardware		283			2733			2522			4013		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		9 22 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			30 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			268 6 29 18			22 23		
SubTotal Prod. Support		*			472	and and a state of the state of		1.4			88		
TOTAL		360		99.0	3205		0.56	2933		0.56	. 4096		0.42

Exhibit P-5, Weapon	*	Appropriation/ Budget Activity/Serial No:	get Activity/	Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature:			Weapon System Type:	Type:	Date:	C
Ammo Cost Analysis		アスしてしておいます	mmunition			5 5	CI G (:02/MM) BALL MOU LINNED/M (3)	SIMPEDIMIS					AIY 1890
	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	8	*	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
	Ħ	\$000	×1000	s	\$000	×1000	\$	000\$	×1000	ક	000\$	×1000	\$
AMMUNITION HARDWARE Load, Assemble and Pack Propellant WC846 (LB) Link M13		3735 359 170	8930 62 9108	0.42 5.83 0.02									
		***************************************					***************************************						
SubTotal AMMO Hardware		4264											
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		6 6 6 46 7 14 49 6											
SubTotal Prod. Support		737											· · · · · · · · · · · · · · · · · · ·
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TOTAL		5001		0.56									·

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•	EXIIIDIT P-5a, Budget Procurement History and Planning	History a	nd Planning					ш	February 1998	86
Appropriation / Budget Activity/Serial No:		Weapon System Type:	am Type:		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMONITION / 1 / Ammunition						CTG 7.62MM	CTG 7.62MM BALL M80 LINKED/M13 (E02003)	ED/M13 (EC	(5003)	
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs	Date	RFP Issue
Fiscal Years		and Type			Delivery	×1000	69	_	Kevsn Avail	Date
Load, Assemble and Pack										
FY 96	Olin Corp (Lake City AAP)	SS/CPAF IOC	100	Feb-96	Oct-96	545	0.45			
FY 96	Olin Corp (Lake City AAP)	SS/CPAF 10C	100	Oct-96	Apr-97	8930	0.42			
FY 97	Independence, MO Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC	loc	Jan-97	Apr-98	5723	0.42	≺es		Oct-96
FY 98	Olin Corp (Lake City AAP)	SS/CPAF 10C	00,	Feb-98	Oct-98	5194	0.42	≺es		Nov-96
FY 99***	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF 10C	100	Jan-99	Oct-99	9829	0.41	Yes		Oct-98
Propellant WC846 (LB)										
FY 96	Olin Corp St. Marks. FL	SS/FP	100	Aug-96	Sep-96	4	6.50			•
FY 96	Olin Corp	SS/FP	201	Nov-96 Jan-97	Jan-97	62	5.83			
FY 97	Ot. Marks, T.C. Primex St Marks FI	SS/FP	00	Aug-97	Sep-97	98	5.83	Yes		Jun-97
FY 98	Primex St Marks FI	SS/FP	201	Aug-97	Sep-97	36	6.55	Yes		Oct-97
FY 99	Plant Procured	N/A	N/A	N/A	A/N	N/A	N/A	N/A	•	N A V
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REMARKS: *** Complete Round										

		7						Date:		
EXHIBIT F	Exnibit P-5a, Budget Procurement History and Planning	iistory an	id Flanning					Ţ	February 1998	88
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type;		2-1 Line Item I	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 7.62MM	CTG 7.62MM BALL M80 LINKED/M13 (E02003)	D/M13 (EC	2003)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	_	Avail	
Link M13									-	
FY 96	Valentec Wells Costa Mesa, Ca	C/FP	00	Mar-96	Sep-96	222	0.02			
FY 96	Valentec Wells Costa Mesa. Ca	C/FP	100	Nov-96 Mar-97	Mar-97	9108	0.02	-		
FY 97	Valentec Wells Costa Mesa Ca	C/FP	100	Sep-97	Oct-97	5837	0.02	Yes		Jul-97
FY 98	TBS	C/FP	100	- 80	Sep-98	5298	0.02	Yes		Oct-97
FY 99	Plant Procured		N/A	ΑŅ.	Α X	K/N	A/N			Y X
REMARKS: TBS - To Be Selected										

FY 98 / 99 RUDGET PRODUCTION SCHEDULE				ц		<u>-</u>	P-1 Item Nomenclature:	menc	Slature:	,		9								Date:	:: :e:							
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-1 Item Nomenclature:

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	2	ION SC	HEDUL						CTG 7.62MM BALL M80 LINKED/M13 (E02003)	82MM (3ALL N	80 LIN	KED/M	13 (EO	2003)				_				Febru	February 1998	98		
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ıre:					
Ā	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					CTG 7.62MM B	CTG 7.62MM BLANK M82 LINKED/M13 (E01902)	M13 (E01902)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
			•	Ą								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1902583				904	17493	20000	20000	20000	20000		2000980
Gross Cost	232.6	0.0	0.0	0.0	6.0	5.7	6.7	6.8	6.9	7.0	0.0	266.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	232.6	0.0	0.0	0.0	0.5	5.7	6.7	6.8	6.9	7.0	0.0	266.2
Initial Spares												
Total Proc Cost	232.6	0.0	0.0	0.0	5.0	5.7	6.7	6.8	6.9	7.0	0.0	266.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

wad. The mouth of the cartridge is sealed and crimped. The Blank Firing Attachment (BFA) M21 is installed on the M240 Machine Gun to enable blank ammunition to This cartridge consists of a primer and propellant contained in a brass case shaped to conform to the configuration of the service round. The propellant is held in by a be fired and to provide back pressure to sustain continuous firing. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No.	dget Activity	/Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	NT OF AMM Ammunition	IONITION / 1 /		CTG 7.62	CTG 7.62MM BLANK M82 LINKED/M13	LINKED/M13				Febru	February 1998
Amminition	₽		FY 96			FY 97	(501902)		FY 98			FY 99	
s	8	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	×1000	ક	\$000	×1000	\$	\$000	×1000	s	000\$	×1000	\$
AMMUNITION HARDWARE Load, Assemble and Pack Link M13 Propellant WC818 (LB)								374 20 17	904 922 3	0.41 0.02 6.55	5524	17493	0.32
SubTotal AMMO Hardware								411			5524		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support								4 - n u ti			180 5 38		
SubTotal Prod. Support								99			223		
			<u> </u>								M204950		
TOTAL								477		0.53	5747		0.33

	1							Date:		
	Exhibit P-5a, Budget Procurement History and Planning	History a	nd Planning					ш.	February 1998	86
Appropriation / Budget Activity/Serial No:		Weapon System Type:	зт Туре:		P-1 Line Item	P-1 Line Item Nomenclature:			İ	
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 7.62MM	CTG 7.62MM BLANK M82 LINKED/M13 (E01902)	ED/M13 (E	01902)	
WBS Cost Elements:	. Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αTγ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	Now?	Avail	
Load, Assemble and Pack										
FY 94	Olin Corp (Lake City AAP)	SS/CPAF 10C	100	Jan-94	Oct-94	24193	0.28			
0 C S	Independence, MO	1	. (
06	Ulin Corp (Lake City AAP) Independence, MO	SS/CPAF 10C	201	Feb-98	Oct-98	904	0.41	≺es		Oct-97
FY 99***	Olin Corp (Lake City AAP)	SS/CPAF IOC	100	Nov-98	Oct-99	17493	0.32	×es		Oct-98
	Independence, MO				- Authorita		•			
Link M13					•					
FY 94	Valentec Wells	C/FP	201	.lan-94	1110-94	24677	20.0			
	Costa Mesa, CA			5	5	2	70.0	-		
FY 98	TBS	C/FP	100	Jan-98	Jun-98	922	0.02	Yes		Oct-97
FY99	Plant Procured		N/A	N/A	Ϋ́	A/N	N/A	A/A		₹X
Propellant WC818 (LB)							······································			
FY 94	Olin Corp	SS/FP	201	Aug-94	Sep-94	29	5 98			-
	St. Marks, FL)	-)				
FY 98	Olin Corp	SS/FP	201	Aug-98	Sep-98	ო	6.55	Yes	_	Oct-97
	St. Marks, FL									
FY 99	Plant Procured	A/A	N/A	N/A	A/N	N/A	N/A	N A		V V V
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REMARKS: ***Complete Round									1	

TBS - To Be Selected

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	5	IOS NOI	 	Ш		<u></u>	P-1 Item Nomenclature: CTG 7.6:	nenclai CT(ciature: CTG 7.62MM BLANK MB2 LINKED/M13 (E01902)	M BLA	X X	32 LINI	(ED/N	13 (E0	1902)	į			Date:	:e:			Febru	February 1998			
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		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	riał No:					P-1 Item Nomenclature:	ıre:					
Ä	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					CTG 7.62MM 4	CTG 7.62MM 4 BALU1 TRACER LINKED (E02002)	VKED (E02002)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
				∢		-						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	820668	24242	6526	14600								866036
Gross Cost	234.4	13.1	3.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	260.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	234.4	13.1	3.9	8.8	0.0	0.0	0.0	0.0	0:0	0.0	0:0	260.2
Initial Spares												
Total Proc Cost	234.4	13.1	3.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	260.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

This item consists of ball and tracer rounds linked four to one and is used in Machine Guns Series M60 and M240. It is intended for use against personnel and nonarmor targets. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

t P-5,		Appropriation/ Budget Activity/Serial No.	dget Activity	/Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature.			Weapon System Type:	Type:	Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMIN	UNITION / 1 /		CTG 7.62	CTG 7.62MM 4 BALL/1 TRACER LINKED (F02002)	ACER LINKED				Febr	February 1998
Ammunition	₽		FY 96			FY 97	(=02502)		FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qfy	UnitCost	TotalCost	aty	UnitCost	TotalCost	ĝ	UnitCost
	Ц	Н	×1000	s	\$000	×1000	\$	\$000	×1000	\$	\$000	×1000	s
AMMUNITION HARDWARE Load, Assemble and Pack Link M13 Propellant MC846 (18)		2937	6526 6657	0.45	6570 278 476	14600	0.45 0.02						
Propellant WC846T (LB)		53	6	5.83	119	2 8	5.83 83						,

SubTotal AMMO Hardware		3327			7443								
Production Support Costs Production Engineering Quality Assurance Acceptance Testing		128 5 36	The Assertion		286 10								
Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		32			868								
SubTotal Prod. Support		589			1317								
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TOTAL		3916		09:0	8760		0.60						

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Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory an	nd Planning					Fe	February 1998	86
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item I	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					J	CTG 7.62MM 4	CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)	LINKED (E	:02002)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	νтр	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	s		Avail	
Load, Assemble and Pack FY 96	Olin Corp (LCAAP)	SS/CPAF 10C	201	76-InC	May-98	6526	0.45			
FY 97	Independence, MO Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC	201	Jan-97	Oct-97	14600	0.45	×es		Nov-96
Link M13 FY 96	Valentec Wells	C/FP	00	Sep-97	Nov-97	6657	0.02			
FY 97	Costa Mesa, CA Valentec Wells Costa Mesa, CA	C/FP	100	Гер-97	Jul-97	14892	0.02	Yes		Nov-96
Propellant WC846 (LB) FY 96	Olin Corp	SS/FP	00	Aug-97	Sep-97	37	5.83			
FY 97	St. Marks, rL Olin Corp St. Marks, FL	SS/FP	00	Aug-97	Sep-97	82	5.83	Yes		Jun-97
Propellant WC846 FY 96	Olin Corp St Marks El	SS/FP	200	Aug-97	Sep-97	თ	5.83		-	
FY 97	Olin Corp St. Marks, FL	SS/FP	00	Aug-97	Sep-97	20	5.83	Yes		Jun-97
,										
REMARKS:			·							

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ire:					
¥6.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					CTG, 9	CTG, 9MM, ALL TYPES (EA3000)	(3000)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:					:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty						·						
Gross Cost	49.5	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	73.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	49.5	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0:0	73.8
Initial Spares												
Total Proc Cost	49.5	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	73.8
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:								-				

This budget line includes 9MM ALL TYPES.

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /	idget Activity	'Serial No: UNITION / 1 /	_	P-1 Line Iten CTG, 9	P-1 Line Item Nomenclature: CTG, 9MM, ALL TYPES (EA3000)	s (EA3000)		Weapon System Type:	Туре:	Date: Febr	February 1998
	!		Ammunition										
Ammunition	<u>○</u>		FΥ 96			FY 97			FY 98			FY 99	
Cost Elements	8	TotalCost	oty	UnitCost		δţ	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost
CHO OWN BALL M882	ļ	\$000	×1000	€9		×1000	\$	\$000	~ 1	€	00\$	_	φ
CIG 9MM BALL M882		4580	30872	0 H	666		0.10 ©			0.15	·	12715	0.15
		4000			888			4135			1907		

Exhibit P-5, Weapon System Cost Analysis

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet		······································	Cale:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	Ire:					
<u>a</u>	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					CTG	CTG 9MM BALL M882 (E05210)	5210)	-	
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	109757	9848	30872	7684	27444	12715	18450	18450	18450	18450		272120
Gross Cost	15.6	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0:0	39.9
Less PY Adv Proc												
Plus CY Adv Proc							***					
Net Proc (P-1)	15.6	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	39.9
Initial Spares												
Total Proc Cost	15.6	1.6	4.6	1.0	4.1	1.9	2.7	2.8	2.8	2.8	0.0	39.9
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

weapon (PDW) and is compatible with all NATO 9mm weapons. This item is Code A, approved for service use. This item will be procured as actual cost beginning in This round consists of a brass case, a jacketed lead bullet, a two-piece boxer-type primer, and a double base propellant. The cartridge 9mm, ball M882 conforms to all United States requirements and NATO standardization agreement (STANAG) 4090 for 9mm ammunition. Its primary usage is with the M9 personal defense FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	,	Appropriation/ Budget Activity/Serial No:	iget Activity	'Serial No:		P-1 Line Item	P-1 Line Item Nomenclature:		_	Weapon System Type:	Type:	Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMI Ammunition	UNITION / 1 /		ств	CTG 9MM BALL M882 (E05210)	(E05210)				Febru	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	+	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	oţò	UnitCost
AMMI INITION I I A DELIVE DELI		\$000	×1000	\$	\$000	×1000	မှ	\$000	×1000	s	\$000	×1000	\$
Ammoni I ION HARDWAKE Load, Assemble and Pack Box Metal M2A1		3455	30872	0.11	756	7684	0.10	3395	27444	0.12 5.74	1685	12715	0.13 5.57
		-		-									
SubTotal AMMO Hardware		3632			796			3556		·	1757		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		11 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	18 - 30 - 1/1 - 1/1		57 0 8 3 3	-		378 9 41 26 125			23 - 8		
SubTotal Prod. Support		948			203			579			150		
TOTAL		4580		0.15	666		0.13	4135	· · · · · · · · · · · · · · · · · · ·	0.15	1907		0.15

		,						Date:		
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	History ar	nd Planning					Ē	February 1998	38
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2-1 Line Item	P-1 Line Item Nomenclature:			·	
PROCUREMENT OF AMMUNITION / 1 / Ammunition						ств	CTG 9MM BALL M882 (E05210)	(E05210)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΩTY	Unit Cost	Specs Avail	Date F	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	Now?	Avail	
linad Assemble and Pack										
FY 96	Olin Corp	C/FP	00	Jan-96	Feb-96	30872	0.11	≺es		
FY 97	East Alton, IL Olin Corp	C/FP	IOC	May-97	Jul-97	7684	0.10	Yes		Oct-96
FY 98	East Alton, IL TBS	C/FP	00	Mar-98	Jul-98	27444	0.12			Oct-97
FY 99	TBS	C/FP	100	Jan-99	66-InC	12715	0.13	×es		Oct-98
Box Metal M2A1										
FY 96	Brockway Standard	C/FP	100	Jul-95	Jan-96	31	5.62	Yes		
FY 97	Homerville, GA Brockway Standard Homerville GA	C/FP	loc	Mar-96	Jun-97	ω	5.07	Yes		Oct-96
FY 98	TBS	C/FP	100	Feb-98	Jun-98	28	5.74	yes		Oct-97
FY 99	TBS	C/FP	100	Jan-99	Jun-99	13	5.57			Oct-98
REMARKS: TBS - To Be Selected										

: TBS - To Be Selected

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	JCTION 8	SCHE	DULE				r-i kem Nomenciature.		ia in ia		MM B	CTG 9MM BALL M882 (E05210)	82 (EC	5210)										Febru	February 1998	86		
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		Exhibit P-4), Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet			į		February 1998		
Appropriation / Budget Activity/Serial No.	rial No:					P-1 Item Nomenclature:	ire:					
۵.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	IMUNITION / 1 / Am						CTG, .4	CTG, :45 CAL, ALL TYPES (ER8110)	ER8110)		
Program Elements for Code B Items:	ms.			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FV 2003	To Complete	Total Brog
Proc Qty									7007	2007		Sout a south
Gross Cost	56.6	0.0	0.0	0.0	0.1	0.0	0:0	0.0	0.0	0.0	0:0	56.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	56.6	0,0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	56.7
Initial Spares												
Total Proc Cost	56.6	0.0	0.0	0.0	0.1	0:0	0.0	0.0	0.0	0.0	0.0	56.7
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
This budget line includes .45 CAL ALL TYPES.	ludes .45 CAL	ALL TYPES	ند.									
)												

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	dget Activity/	/Serial No:		P-1 Line Itel	P-1 Line Item Nomenclature:	(C) (C) (C) (C) (C) (C) (C) (C) (C) (C)		Weapon System Type:		Date:	1000
Ammo Cost Analysis		PROCOREME	Ammunition	ONITION		٠. ن ک	IS CAL, ALL I FF	ES (ERO110)					aly 1990
	Ō		FY 96			FY 97			FY 98			FY 99	
Cost Elements	8	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost
			Each	\$000	\$000	Each	\$000	\$000	Each	\$00	\$000	Each	\$000
CTG CAL. 45 MATCH GRADE								72			2		

		7 C 7: 1: 1: 1: L						Date:				
		Exhibit P-4	Exhibit P-40, Budget Item	em Justific	Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature:	ıre:					
a.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	nmunition					CTG, .5	CTG, .50 CAL, ALL TYPES (E08000)	E08000)		
Program Elements for Code B Items:	ems:			Code:	Other Related Program Elements:	ram Elements.						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Bros
Proc Qty										222	and the second	501
Gross Cost	383.1	0.0	26.5	4.9	19.7	18.5	18.8	20.9	22.7	25.4	0.0	540.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	383.1	0.0	26.5	4.9	19.7	18.5	18.8	20.9	22.7	25.4	0.0	540.5
Initial Spares												
Total Proc Cost	383.1	0.0	26.5	6.4	19.7	18.5	18.8	20.9	22.7	25.4	00	540.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
This budget line includes .50 CAL ALL TYPES.	ludes 50 CAL	. ALL TYPES	ιń									

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	get Activity/ IT OF AMMI	Serial No: UNITION / 1 /		P-1 Line Iter CTG, .5	P-1 Line Item Nomenclature: CTG, .50 CAL, ALL TYPES (E08000)	:s (E08000)		Weapon System Type:		Date: Febr	February 1998
Amminition	₽		FY 96			FY 97			FY 98			FY 99	
s	8	TotalCost	o ţ	UnitCost	TotalCost	δ	UnitCost	TotalCost	φ	UnitCost	TotalCost	oţo Ş	UnitCost
	Т	\$000	×1000	\$	\$000	×1000	\$	\$000	×1000	\$	\$000	×	s
CTG CAL .50 BALL M33 W/M9 LINK CTG CAL .50 4 BALL/1 TRACER W/M9 LINK CTG CAL .50 SLAPT M903 (M962 TRACER)		24479 2019	8298 194	2.68	4947	2070	2.39	929 15766 3029	489 7539 329	1.90 2.09 9.21	3694 14850	2649 9325	1.39 1.59
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TOTAL		26498			4947			19724			18544		

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature;	ıre:					
Rq.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	ımunition					CTG CAL .50	CTG CAL .50 BALL M33 W/M9 LINK (E07100)	VK (E07100)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	ram Elements:						
				ď								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	34081				489	2649	2597	2568	2596	2594		47574
Gross Cost	43.8	0.0	0.0	0.0	6.0	3.7	3.7	3.7	3.7	3.8	0.0	63.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	43.8	0.0	0.0	0.0	6.0	3.7	3.7	3.7	3.7	3.8	0.0	63.3
Initial Spares												
Total Proc Cost	43.8	0.0	0.0	0.0	6:0	3.7	3.7	3.7	3.7	3.8	0.0	63.3
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The caliber .50 ball M33 is linked with the M9 links for use in Army training with caliber .50 machine guns, M2 and M3. These rounds are also used in function test firing of the M2 and M3 machine guns. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	<_	Appropriation/ Budget Activity/Serial No:	dget Activity	/Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREME	ENT OF AMMU	PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG CAL .51	CTG CAL .50 BALL M33 W/M9 LINK (E07100)	9 LINK (E07100)				Februa	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
s	8	TotalCost	Qty	UnitCost	TotalCost	afy	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
	H	\$000	×1000	↔	\$000	×1000	ક્ર	\$000	×1000	\$	000\$	×1000	\$
AMMUNITION HARDWARE Load, Assemble and Pack Box Metal M2A1 Link M9 Propellant WC860 (LB)								630 29 33 110	489 5 494 17	1.29 5.74 0.07 6.55	3363	2649	5.57
SubTotal AMMO Hardware								802			3513		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge								82 2 0 0 2 28 6 9 0			105		
SubTotal Prod. Support								127			181		· · · · · · · · · · · · · · · · · · ·
TOTAL								929		1.90	3694		1.39

	Exhibit P-5a, Budget Procurement History and Planning	History a	nd Planning					Cate:	February 1998	60
Appropriation / Budget Activity/Serial No:		Weapon System Type:	im Type:		P-1 Line Item	P-1 Line Item Nomenclature:				T
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG CAL .5	CTG CAL .50 BALL M33 W/M9 LINK (E07100)	LINK (EO)	100)	
WBS Cost Elements.	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΔΤΥ	Unit Cost	Specs	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	_	Avail	
Load, Assemble and Pack										
FY 94	Olin Corp (Lake City AAP)	SS/CPAF IOC	00	Nov-93	Oct-94	6523	1.05			
FY 98	Independence, MO Olin Corp (Lake City AAP)	SS/CPAF 10C	100	Dec-97	96-unf	489	1.29	×es		Oct-97
00 >	Independence, MO	1	(<u></u>							
3	Unit Colp (Lake City AAP) Independence, MO	SS/CPAF IOC	200	Nov-98	66- j o O	2649	1.27	Yes		Oct-98
Box Metal MZA1										
FY 94	Brockway Standard	C/FP	00	Jan-94	Jul-94	29	5.68			
0 2 2	Homerville, GA									
000	Brockway Standard	C/FP	200	Dec-97	Mar-98	2	5.74	≺es		Oct-97
FY 99	TBS	C/FP	00	Jan-99	96-JnC	27	5.57	Yes		Oct-98
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		į	<u>.</u>							
† - -	Valented vvelis	<u>.</u>	20	Jan-94	Jul-94	6653	0.07			
FY 98	Valentec Wells	C/FP	<u> </u>	Jan-98	Mav-98	494	0 02			76-100
	Costa Mesa, CA					<u>. </u>	<u> </u>	3		3
FY 99	Plant Procured	A/N	N/A	N/A	N/A	N/A	N/A	A/N		N/A
										
REMARKS: TBS - To Be Selected									1	T

: TBS - To Be Selected

Exhibit P	Exhibit P-5a, Budget Procurement History and Planning	listory an	nd Planning					Date:	February 1998	60
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item Nomenclature:	Vomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG CAL .50	CTG CAL .50 BALL M33 W/M9 LINK (E07100)	LINK (E071	(00)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αTY	Unit Cost	Specs Avail F	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$		Avail	
Propellant WC860 (LB) FY 94	Olin Corp	SS/FP	. 001	Aug-94	Sep-94	18	5.98			
FY 98	Olin Corp	SS/FP	201	Jan-98	May-98	17	6.55	Yes		Oct-97
FY 99	ot. Marks, rL Plant Procured	¥ X	NA.	A A	Ą V	A A	A	¥ Y		ΑĀ
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REMARKS:										

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature:	ure:					
<u>а</u>	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	munition					CTG CAL .50 4 B	CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)	19 LINK (E07200)		
Program Elements for Code B Items.	ems:			Code:	Other Related Program Elements:	am Elements:						
				¥	_							
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prod
Proc Qty	379168		8298	2070	7539	9325	9281	9281	9281	9281		443524
Gross Cost	258.4	0.0	24.5	4.9	15.8	14.9	15.1	15.1	15.3	15.5	0:0	379.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	258.4	0.0	24.5	4.9	15.8	14.9	15.1	15.1	15.3	15.5	0.0	379.5
Initial Spares												
Total Proc Cost	258.4	0.0	24.5	4.9	15.8	14.9	15.1	15.1	15.3	15.5	0.0	379.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

or ground mounted machine guns. The tracer round permits observation of the bullet's trajectory to the point of impact. The ammunition is designed for use in the M2 or M3 machine guns. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99. This item consists of M33 ball and M17 tracer linked 4 to 1 with the M9 link. These cartridges in the linked configuration are for training use in either vehicle mounted

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	Ì	Appropriation/ Budget Activity/Serial No.	dget Activity	/Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 /	ENT OF AMM	IUNITION / 1 /		CTG CAL .5	CTG CAL :50 4 BALL/1 TRACER W/M9 LINK	SER W/M9 LINK				Febr	February 1998
Aciticular	₽		FY 96	ľ		FY 97	(E0/200)		FY 98			FY 99	
·	8	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
	T	\$000	×1000	\$	\$000	×1000	\$	\$000	×1000	ક	\$000	×1000	s
AMMUNITION HARDWARE Load, Assemble and Pack Box Metal M2A1		15450 459 521	8011 82 8083	1.93 5.62 0.06	3380 107 118		1.63 5.07 0.06	10510 441 502		1.39 5.74 0.07	12887 529	9325	1.38 5.57
Propellant WC860 (LB) Prop IMR 5010 (LB)		1473 813	227 54	·	341	14	5.83 17.74	1359 793	207	6.56 14.61	096	29	14.29
SubTotal AMMO Hardware		18716			4192			13605			14376		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		547 26 215 717 797			173 6 46 40 490			1390 34 156 98 483			160 4 4 22 288 288		
SubTotal Prod. Support		5077			755			2161			474		-
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, in the second		23703					030	15768		60.0	ARKO		
IOIAL]	20130		7.31	2		25.3			2.5			20.

Exhibit P-5,	Weapon System Cost Analysis

_		Appropriation/ Budget Activity/Serial No:	dget Activity,	Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 /	NT OF AMM	UNITION / 1 /	- 	CTG CAL :	CTG CAL .50 4 BALL/1 TRACER W/M9 LINK	CER W/M9 LINK				Feb	February 1998
	٤		Ammunition				(E07200)						
Ammunition	⊇ ¦	9: 1	28 2			F Y 97			Ε <u>Υ</u> 38			FY 99	
Cost Elements	8	lotalCost	À O	UnitCost	TotalCost	Q _t y	UnitCost	TotalCost	aty Oth	UnitCost	TotalCost	aty Y	UnitCost
AMMINITION HABBANABE	1	\$000	×1000	છ	\$000	×1000	€	\$000	×1000	\$	000\$	×1000	\$
Load, Assemble and Pack Box Metal M2A1 Link M9 Propelant WC860 (LB)		469 15 16 74	287 3 290 8	1.63 5.07 0.06 5.83							***		
		, ,	N	17.74									
SubTotal AMMO Hardware		581											
Production Support Costs Production Engineering Quality Assurance Acceptance Testing		24											
Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		9 89											
SubTotal Prod. Support		105											
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			•								5 / A A A	 	
TOTAL		989	-4	2.39								_	

								Date:		Γ
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory an	nd Planning					F	February 1998	8
Appropriation / Budget Activity/Serial No:		Weapon System Type.	n Type:	4	P-1 Line Item Nomenclature.	lomenclature:	:			
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CT	G CAL .50 4 B	CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)	WM9 LINK	(E07200)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	s	Now?	Avail	
Load, Assemble and Pack		20/00	Ç	90 46	9		103			
06 _	Independence, MO	L ()	3	96-1-90		 - - - - - -	<u>.</u>			
FY 96	Olin Corp (Lake City AAP)	SS/CPAF 10C	00	Mar-97	Oct-97	287	1.63		-	
	Independence, MO				-					-
FY 97	Olin Corp (Lake City AAP)	SS/CPAF IOC	00	Jan-97	Oct-97	2070	1.63	≺es	<u> </u>	Oct-96
	Independence, MO									
FY 98	Olin Corp (Lake City AAP)	SS/CPAF 10C	00	Dec-97	Apr-98	7539	1.39	Yes		Oct-97
	Independence, MO									-
FY 99	Olin Corp (Lake City AAP)	SS/CPAF IOC	200	Nov-98	Oct-99	9325	1.38	≺es	<u> </u>	Oct-98
	Independence, MO									
						-				
Box Metal M2A1										
FY 96	Brockway Standard	C/FP	10c	96-unr	Sep-96	85	5.62			
	Homerville, GA								-	
FY 96	Brockway Standard	C/FP	10c	Apr-97	Sep-97	က	5.07			
	Homerville, GA									-
FY 97	Brockway Standard	C/FP	10C	May-97	Sep-97	27	5.07	×es	_	Feb-97
	Homerville, GA									
FY 98	Brockway Standard	C/FP	100	Dec-97	Mar-98	77	5.74	Yes		Oct-97
	Homerville, GA									
FY 99	TBS	C/FP	201	Jan-99	96-Inc	95	5.57	Yes		Oct-98
									.	
REMARKS: TRS - To Be Selected									1	

Exhibit	Exhibit P-5a. Budget Procurement H	listory ar	urement History and Planning					Date:		
			6					L.	February 1998	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	omenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CJ	G CAL .50 4 B	CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)	WW9 LINK	(E07200)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs	Date R	RFP Issue
Fiscal Years		and Type			Delivery	×1000	€9	Now	Avail	
Link M9										
FY 96	Valentec Wells	C/FP	201	Jun-96	Sep-96	8083	0.06			
FY 96	Costa Mesa, CA Valentec Wells	C/FP	00	Apr-97	Jul-97	290	0.00			
	Costa Mesa, CA									
FY 97	Valentec Wells	C/FP	200	Feb-97	Aug-97	2088	90:0	Xes	<u> </u>	Oct-96
FY 98	Valentec Wells	C/FP		Jan-98	Mar-98	7606	0.07	Yes		Oct-97
60 50 24	Costa Mesa, CA	Š			5	2				
) -				<u> </u>	¥ <u>X</u>	Z/Z	A/A	— ∀ Z		Y X
Propellant WC860 (LB)										
FY 96	Olin Corp	SS/FP	200	Apr-96	96-unf	227	6.50			-
FY 96	St. Marks, FL Olin Corp St. Marks, FL	SS/FP	00	Aug-97	Sep-97	ω	5.83	····	 	
FY 97	Olin Corp	SS/FP	00	Aug-97	Sep-97	29	5.83	≺es		May-97
FY 98	St. Marks, FL Olin Corp	SS/FP	00	Jan-98	Mar-98	207	6.55	Yes		Oct-97
FY 99	St. Marks, FL Plant Procured	N/A	. N/A	A N		N/N	N/A	Z/A		N/A
REMARKS:								1		Γ

L VIII L		1000						Date:		
Exhibit	Exhibit P-5a, Budget Procurement History and Planning	iistory an	id Flanning					Fe	February 1998	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item Nomenclature:	lomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					C	G CAL .50 4 B/	CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)	//M9 LINK (E07200)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avait	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	s		Avail	
Prop IMR 5010 (LB)			,				-			
FY 96	Alliant Tech Sys (Radford AAP)	SS/FP	201	Sep-96	Sep-96	54	15.15			
FY 96	Alliant Tech Sys (Radford AAP)	SS/FP	200	Aug-97	Sep-97		17.74	•		
FY 97	Radiold, vA Alliant Tech Sys (Radford AAP)	SS/FP	100	Aug-97	Sep-97	4	17.74	Yes		May-97
FY 98	Radford, VA Alliant Tech Sys (Radford AAP)	SS/FP	00	Jan-98	Mar-98	54	14.61	×es		Oct-97
	Radford, VA			,	(
FY 99	Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	201	Aug-99	Sep-99	29	14.29	×es		Oct-98
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REMARKS:										

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCT	ION SCI	HEDUI	щ			P-1 Item Nomenclature: CTG CAL :	Nomer C	nclatur TG CAI	enclature: CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)	BALL	TRAC	ER W	II 6Mi	Ä (E	7200)			-	Date:	ii.			Febru	February 1998	98		
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	riał No:					P-1 Item Nomenclature:	ure:					
A.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					CTG CAL .50 SL	CTG CAL .50 SLAPT M903 (M962 TRACER) (F88000)	(ACER) (F88000)		
Program Elements for Code 8 Items:	ns:			Code:	Other Related Program Elements:	ram Elements:						
				4								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	605		194							250		1049
Gross Cost	5.0	0.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	12.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	5.0	0.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	12.3
Initial Spares												
Total Proc Cost	5.0	0.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	12.3
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

launch. It is injection molded of special high strength plastic and is reinforced with an aluminum insert in the base section. The tungsten alloy penetrator has a slot in composition. This ammunition is linked four M903 SLAP to one M962 tracer for use in the M2 Heavy Barrel Machine Gun. The item is code A, approved for service the base to insure full spin-up before separation from the sabot at the muzzle. The companion tracer cartridge, M962, consists of a tungsten alloy penetrator of the standard rounds, with Tracer, M962. The sabot, which is designed to break up at the muzzle to release the penetrator, must also survive the gun environment until The Caliber, Saboted Light Armor Penetrator (SLAP), M903 cartridge consists of a heavy metal penetrator which is sabot launched at a much higher velocity than same mass as the M903 and is launched from a sabot of the same material and similar design. The penetrator base is cored out to accommodate a trace mix use. The item has not transitioned to the SMCA and will be procured at actual cost.

JUSTIFICATION:

Procurements are intended for use against current and future light armored targets and Armored Attack Helicopters (AAHs). The M903 offers the capability to defeat these targets at ranges 2 to 3 times that of currently available ammunition.

Type Classified (TC) Date: March 1993.

Exhibit P-5, Weapon	<_	Appropriation/ Budget Activity/Serial No:	get Activity/	Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:			Weapon System Type:	Type:	Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 Ammunition	ENT OF AMMI Ammunition	UNITION / 1 /		CTG CAL .6	CTG CAL .50 SLAPT M903 (M962 TRACER)	M962 TRACER)		M2 Heavy Barr	M2 Heavy Barrel Machine Gun	Feb C	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
S	8	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
	Н	\$000	×1000	€	\$000	×1000	s	000\$	×1000	ઝ	000\$	×1000	\$
AMMUNITION HARDWARE 1. COMPLETE ROUND 2. M2A1 METAL BOX	∢	1486	194	7.66	2537	329	7.71	· - ·					
													
						, , , , , , , , , , , , , , , , , , ,							
SubTotal AMMO Hardware		1498			2561								
Production Support Costs 1. Production Engineering 2. Quality Assurance 3. Acceptance Testing 4. Interim Transportation		238 90 110 6			244 90 110 24								
SubTotal Prod. Support		444			468								
COST - Nonrecurring 1. ENGINEERING CHANGE		7.7											
SubTotal COST-Nonrecurring		7.2											
TOTAL		2019		10.40	3029		9.21						

Exhibit	Exhibit P-5a, Budget Procurement History and Planning	History a	nd Planning					Date:	Cohmony 1008	g
Appropriation / Budget Activity/Serial No:		Weapon System Type:	am Type:		P-1 Line Item	P-1 Line Item Nomenclature.			anidaly 192	
PROCUREMENT OF AMMUNITION / 1 / Ammunition		M2	M2 Heavy Barrel Machine Gun		U	TG CAL .50 St	CTG CAL :50 SLAPT M903 (M962 TRACER) (F88000)	TRACER)	(F88000)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Award Date Date of First	αту	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	s		Avail	
1. COMPLETE ROUND FY 96 FY 96 FY 97	סרוא' ורד סרוא' ורד סרוא' ורך	SS/FP MOD OPT	TACOM-ARDEC TACOM-ARDEC TACOM-ARDEC	Apr-96 Jan-97 Nov-97	Jun-96 Jan-98 Feb-98	80600 113400 329000	8.07 7.37 7.7.7	YES		Jan-96 Sep-96 N/A
2. M2A1 METAL BOX FY 96 FY 97	Brockway Std, Homerville, GA Brockway Std, Homerville, GA	OPT OPT	00 00 00	Mar-96 Nov-97	May-96 Feb-98	1940	6.19 6.92	YES		
				7			1,000			

REMARKS:										
										_

EY 98 / 99 BUDGET PRODUCTION SCHEDULE	- 	ION SCI	HED O	Ш			<u> </u>	P-1 Item Nomenclature;	menc CT	enclature; CTG CAL .50 SLAPT M903 (M962 TRACER) (F88000)	.50 SL	APT N	1903 (1	M962	TRAC	ER) (F	88000	_			-	Date:			ιĹ	February 1998	√ 199≀	m		
	H			Q	ACCEP.	BAL	Ļ		l	۲	Isca	Fiscal Year 97	6	l		l	Γ	L		l	1	FISC	Fiscal Year 98	ear 9		ł	ŀ		H	L
2	Σ		S	ΔT	PRIOR	DUE			H				င္မ	enda	<u></u>	Calendar Year 97]			厂	l		Cal	euga	ır Ye	Calendar Year 98			ı	_ ∀
COST ELEMENTS	uc	Ā	m & >	Each	T0 1 OCT	AS OF 1 OCT	0 U F	z o >	о ш o	- 4 Z	∑ < ℃	< 0 €	Σ∢≻	っ ⊃ Z	ר ני	∢⊃ຶ	αшσ	0 U F	z o >	O W O	7 ∢ Z	тшо	Σ∢α	40 ك	≅∢≻	っ D Z		A ∪ و	υшα	⊢шα
1. COMPLETE ROUND	H									Н	Н					Ш						П	_	Н	H	H	Н	Н	_	
	_	FY 96	٧	194	81	113					Н										113		-							
	1	FY 97	Α	329	0	329						Щ							٧			66	115	115			_		H	
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1. COMPLETE ROUND	=	FY95&P	ğ	700	461	539	110	110	16	က	\dashv	_	_	4								\dashv		_	┪	┪		\dashv	-	
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W	۲	PR	ODUCTIC	PRODUCTION RATES		מינות אינות	_	MFR	1	1	1	ш	¥	ADMIN LEAD TIME	EAD	TIME		L	MFR			TOTAL	Γ	RE	REMARKS	S	1	ł	┨	Γ
MAN NOTE ACCOUNTS		Z	7	1.8.5	MAX	+0	_	Number	INITIA		\vdash	+	Prior 1 Oct	Ö	1	After 1 Oct	j O	₹	After 1 Oct.	ថ្ង	Ĭ	Affer 1 Oct	ដ							
Olin, East Alton, IL	t	. 09	2	220	440		Т		REORDER	ËR	+	+	4		1	9			? ~	T	L	13	Ī							
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ure:					
Ą	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	ımunition					CTG CAL .	CTG CAL .50 API MK211 MOD 0 (F47400)	0 (F47400)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			234	329	286							849
Gross Cost	0.0	0.0	1.9	2.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	1.9	2.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9
Initial Spares												
Total Proc Cost	0.0	0.0	1.9	2.0	1.9	0.0	0.0	0.0	0.0	0:0	0.0	5.9
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The Grade B MK211 will be linked in a 4:1 ratio with the caliber .50 M20 Armor Piercing Incendiary Tracer cartridge for use in the M2 machine gun. The cartridge provides improved penetration performance against light armor vehicles and personnel. The projectile consists of a brass jacket surrounding a steel body and tungsten core with incendiary and high explosive charges.

JUSTIFICATION:

This is a war reserve item, used in combat. Procurements are building toward the war reserve requirement.

TYPE CLASSIFICATION DATE:

9 February 1996

it P-5, V	Ψ	Appropriation/ Budget Activity/Serial No:	get Activity/	Serial No:		P-1 Line Item	P-1 Line Item Nomenclature: CTG CAL 50 API MK211 MOD 0 (E47400)	(U) () (E47400)		Weapon System Type:		Date:	February 1998
Ammo Cost Analysis		,	Ammunition))							
Ammunition	QI		FY 96			FY 97			FY 98			FY 99	
S	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
	H	\$000	×1000	\$	000\$	×1000	\$	\$000	×1000	\$	\$000	×1000	S
AMMUNITION HARDWARE Load, Assemble and Pack Ctg Cal .50 MK 211 API Grade B Ctg .50 Cal API-T M20 Box Metal M2A1 Link M9		1450	234	6.20	126 1457 118 17	329 263 66 3 332	8.0.0 9.7.1 0.0.0	125 1446 117 17 19	286 229 57 3 289	0.44 6.32 2.04 5.74 0.07			
SubTotal AMMO Hardware		1450			1737			1724					
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		4	***************************************		2 19 16 88 88 203	1374		128 20 20 12 12					
SubTotal Prod. Support		444			308			225					
TOTAL		1894		60.8	2045		6.22	1949					

									ĺ	
Exhibit	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					Date:	February 1998	88
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2-1 Line Item I	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG CAL.	CTG CAL .50 API MK211 MOD 0 (F47400)	DD 0 (F474	(00)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs	Date	RFP Issue
Fiscal Years		and Type		,	Delivery	Each	\$	Now?	Avail	
Load, Assemble and Pack FY 96 (Complete Round)	Olin Corp	C/FP	NAVY	96-unf	96-JnC	234000	6.20			
FY 97	East Alton, IL Olin Corp (Lake City AAP)	SS/CPAF IOC	201	Sep-97	Oct-98	328773	0.38	Yes		Oct-96
FY 98	Independence, MO Olin Corp (Lake City AAP) Independence, MO	SS/CPAF 10C	. 201	Jan-98	Apr-99	286000	44.0	Yes		Oct-97
Ctg Cal .50 MK 211 API Grade B										
FY 96	Plant Procured	N/A	N/A	N/A	N/A	N/A	A/N	Ą		Z
FY 97	Olin Corp (Lake City AAP)	SS/CPAF	100	Sep-97	Oct-98	263019	5.54	×es		Oct-96
FY 98	Independence, MO Olin Corp (Lake City AAP) Independence, MO	SS/CPAF 10C	200	Jan-98	Apr-99	228800	6.32	Xes		Oct-97
Ctg.50 Cal API-T M20	!							****	-	
FY 90 FY 97	Plant Procured Olin Corp (Lake City AAP)	N/A N/A	N/A IOC	N/A Sep-97	N/A Sof-oc	N/A 65755	N/A	A S		N/A
FY 98	Independence, MO Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC	00	Jan-98	Apr-99	57200	2.04	× ×		Oct-97
Box Metal M2A1										
FY 96	Plant Procured		N/A	N/A	N/A	N A/A	N/A	A/A		ΑX
FY 97	Brockway Standard	C/FP	201	May-97	Dec-97	3354	5.03	≺es		Oct-96
FY 98	Homerville, GA TBS	C/FP	201	Mar-98	Sep-98	2918	5.74	Yes		Oct-97
REMARKS: TBS- To be Selected										

Exhibit I	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					. Tale:	February 1998	80
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2-1 Line Item f	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG CAL	CTG CAL .50 API MK211 MOD 0 (F47400)	DD 0 (F474)	(0)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	S	_	Avail	
Link M9	Plant Procured		A/N	4 /2	4/2	4 /N	4 /N			4/2
F 97	Valentec Wells	C/FP	00	Jul-97	Jan-98	331732	0.06	≺es		Oct-96
FY 98	TBS	C/FP	00	Mar-98	Sep-98	288574	0.07	≺es		Oct-97
			·							
REMARKS: TBS - To be Selected										

	Ext	ibit P-40,	Exhibit P-40, Budget Item Justification Sheet	em Justifi	cation Sh€	eet		Cale:		February 1998		
Appropriation / Budget Activity/Serial No: PROCUREMENT	Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	MUNITION / 1 /	Ammunition			P-1 Item Nomenclature:	lature:	CTG, 20M	CTG, 20MM, ALL TYPES (E08900)	E08900)		
			I	Ī								
Program Elements for Code B Items:	B Items:			Code:	Other Related Program Elements:	ogram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	294.1	1.2	0.0	0.3	0.0	0.0	0.0	0:0	0.0	0.0	0.0	295.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	294.1	1.2	0.0	6.0	0.0	0:0	0.0	0.0	0.0	0.0	0:0	295.6
Initial Spares												
Total Proc Cost	294.1	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0:0	0:0	295.6
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
This budget line includes 20MM ALL TYPES.	includes 20	MM ALL T	YPES.									
	,											

Amme Cost Amelicia	δ P	propriation/ E	Sudget Act	Appropriation/ Budget Activity/Serial No:		P-1 Line It	P-1 Line Item Nomenclature:	ure:		Weapon System Type:		Date:	
ysis		/ A	/ Ammunition	4		ָ פֿ	, , , , , , , , , , , , , , , , , , ,	(CO08000)				Febr	February 1998
	Ш					FY 97			FY 98			FY 99	
Cost Elements co		TotalCost		UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost
		000\$	Each	000\$	000\$	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TOTAL					300	229	5.22						

doet Item	Exhibit P-40	Item . Instification Shee
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								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item		Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature.	Jre:					
R	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	munition					CTG, 2	CTG, 25MM, ALL TYPES (E08200)	(08200)		
Program Elements for Code B Items:	ns:		·	Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	963.0	45.5	68.2	79.9	86.2	59.6	6.09	72.6	84.1	88.7	0.0	1608.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	963.0	45.5	68.2	79.9	86.2	59.6	6.09	72.6	84.1	88.7	0.0	1608.7
Initial Spares												
Total Proc Cost	963.0	45.5	68.2	79.9	86.2	59.6	6.09	72.6	84.1	88.7	0.0	1608.7
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

This budget line includes 25MM ALL TYPES.

Exhibit P-5. Weapon	Γ	Appropriation/ Budget Activity/Serial No:	tget Activity/	Serial No:		P-1 line Iten	P.1 line Item Nomenclature		ľ	Manney Chetam Times			
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMU	JNITION / 1 /		CTG, 2	CTG, 25MM, ALL TYPES (E08200)	s (E08200)					February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	S	+	Qty	UnitCost	TotalCost	Oty	UnitCost	TotalCost	aty	UnitCost	TotalCost	ş	UnitCost
		\$000	×1000	\$	H	×1000	ક્ક	\$000	×1000	\$	\$000	×1000	\$
CTG 25MM TP-T M793 CTG 25MM TP-T M793		22281	1240	17.97	7174	487	14.72	20029	1283	15.61	19086		13.09
CTG 25MM TPDS-T M910 CTG 25MM APFSDS-T M919		45487	2272	20.02	39925 32793	2323	17.19	25102 41058	1420	17.68	40532	2560	15.83
TOTAL		68179			79892			86189			59618		

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	erial No:					P-1 Item Nomenclature:	ıre:					
<u>~</u>	PROCUREMENT OF AMMUNITION / 1 / Ammunition	IMUNITION / 1 / Am	munition					СТВ2	CTG 25MM TP-T M793 (E08203)	18203)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
				4								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	16102	789	1268	487	1283	1458	1232	1201	1200	1202		26222
Gross Cost	221.6	11.7	22.7	7.2	20.0	19.1	16.4	16.2	16.4	16.6	0.0	367.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	221.6	11.7	22.7	7.2	20.0	19.1	16.4	16.2	16.4	16.6	0.0	367.9
Initial Spares												
Total Proc Cost	221.6	11.7	22.7	7.2	20.0	19.1	16.4	16.2	16.4	16.6	0.0	367.9
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

packaged/shipped in the M621 plastic container, 30 rounds per container. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99. The M793 cartridge is a percussion primed 25mm Target Practice-Traced (TP-T) cartridge with M28 link for use in the M242 gun which is mounted on the Bradley Fighting Vehicle System. The M793 training round is ballistically matched to the M792 High Explosive Incendiary-Tracer (HEI-T) ammunition. This round will be

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	۲	Appropriation/ Budget Activity/Serial No.	det Activity	Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 Ammunition	ENT OF AMMI Ammunition	UNITION / 1 /		СТС	CTG 25MM TP-T M793 (E08203)	(E08203)				Febr	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
S	Q	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Q _t y	UnitCost
LI WOOD ALL MOLENIA	H	\$000	×1000	\$	\$000	×1000	ક્ર	\$000	×1000	ક્ક	\$000	×1000	\$
Awintolnii Ion hakbwake Load, Assemble and Pack Container PA 125		17847	1268	13.29	6078	487	12.47	15937 1344	1283	12.42	18543	1458	12.72

SubTotal AMMO Hardware		17847	7		6078	·/·		17281	***************************************	_	18543		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing		556 24 205			223			1770 43 199	7	· · · · · · · · · · · · · · · · · · ·	168		
Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		69 751 3240			740			124			371		
SubTotal Prod. Support		4845			1096			2748			543		

					· · · · · · · · · · · · · · · · · · ·								
TOTAL		22692		16.35	7174		14.72	20029		15.61	19086		13.09

								Date:		
Exhibit P	Exhibit P-5a, Budget Procurement H	listory ar	rement History and Planning					Ţ.	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG	CTG 25MM TP-T M793 (E08203)	(E08203)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QΤΥ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	Now?	Avail	
Load, Assemble and Pack	<u> </u>	ر ت	0	Anr-96	Mav.97	470	#12 47			
	Marion, IL			3	is fam.	7	j			
FY 96***	Alliant Tech Sys, Inc.	C/FP	201	Apr-96	May-97	0//	#11.40			
	New Brighton, MN									
FY 96***	Alliant Tech Sys, Inc.	C/FP	202	May-98	Dec-98	78	#12.47			
	New Brighton, MN									
FY 97***	Alliant Tech Sys, Inc.	C/FP	201	May-97	Jan-98	184	#12.36	≺es		Feb-97
	New Brighton, MN									;
FY 97***	Primex	C/FP	100	May-97	Nov-98	303	#12.36	≺es		Feb-97
	Marion, IL									
FY 98	TBS	C/FP	<u> 10</u>	Mar-98	May-99	1283	12.42	×es		Oct-97
FY 99***	TBS	C/FP	100	Mar-99	May-00	1458	12.72			Oct-98
Container PA125		,					,			
FY 96	Plant Procured	Ψ/Z	N/A	¥χ N	₹ Z	A/N	N/A			¥ Ž
FY 97	Plant Procured	A/A	N/A	A/N	A/N	A/N	A/N			A/N
FY 98	TBS	C/FP	<u> </u>	Mar-98	May-99	€	31.37	≺es		Oct-97
FY 99	Plant Procured	N/A	N/A	A/N	A/A	A A	A/N			A/N
			-							
REMARKS: TBS - To Be Selected										

tks: TBS - To Be Selected
Actual contract price for multiple producers.
***Complete Round

		l				P-1 ller	P-1 Item Nomenclature:	clature		ı	İ	۱						Date:		l	١			۱	١
FY 98 / 99 BUDGET PRODUCTION SCHEDULE	JCT10	N SCI	HEDUL						CTG 25MM TP-T M793 (E08203)	MM TP.	T M793	(E082	03)									February 1998	1998		
			d	PROC ACCEP	-			μ.	Fiscal Year 98	ear 9				Г				Ę	Fiscal Year 99	ear 9	6	l	l	Γ	_
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Exhibit P-21, Production Schedule

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	rial No:					P-1 Item Nomenclature:	ıre:					
ā	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Art	nunition					CTG 25	CTG 25MM TPDS-T M910 (E08204)	508204)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	9081	468	2272	2323	1420	2560	2072	2072	2072	2072		26412
Gross Cost	154.5	9.4	45.5	40.0	25.1	40.5	31.8	32.3	32.7	33.1	0.0	444.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	154.5	9.4	45.5	40.0	25.1	40.5	31.8	32.3	32.7	33.1	0:0	444.8
Initial Spares												
Total Proc Cost	154.5	9.4	45.5	40.0	25.1	40.5	31.8	32.3	32.7	33.1	0.0	444.8
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The 25mm Armor Piercing (AP) training round is ballistically matched to the 25mm cartridge AP Discarding Sabot, with Tracer M919. The M910 is used in gunnery training and qualification of the M2/M3 Bradley Fighting Vehicles in lieu of the M791 and the M919. This round supports live Bradley Fighting Vehicle training at smaller facilities that cannot use the long range combat cartridges. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The maximum range of the current APDS-T and the follow-on APFSDS-T cartridges precludes their use on most training ranges. Bradley Fighting Vehicle crews cannot obtain meaningful training without this round.

TYPE CLASSIFICATION DATE:

it P-5, V		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1.	get Activity	/Serial No:		P-1 Line Iter CTG 25	P-1 Line Item Nomenclature: CTG 25MM TPDS-T M910 (E08204)	O (E08204)		Weapon System Type:		Date: Febru	February 1998
Ammo cost Analysis		4	Ammunition										
Ammunition	QI.		FY 96			FY 97			FY 98			FY 99	
Cost Elements	СD	•	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost
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AMMUNITION HARDWARE Load, Assemble and Pack Container PA125		35732	2272	15.73	33826	2323	14.56	20173	1420	14.21 31.37	37642	2560	14.70
SubTotal AMMO Hardware		35732			33826			21661			37642	· · ·	
Production Support Costs Production Engineering Quality Assurance		1108 50			1242			2215			2132		-
Acceptance Testing Interim Transportation Industrial Stock Support		411 136 1518 6532			369 321 1			249 156 767			754		-
SubTotal Prod. Support		9755			6609			3441			2890		
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	EXNIBIT P-5a, Budget Procurement History and Planning	History ar	nd Planning					Ţ	February 1998	8
Appropriation / Budget Activity/Serial No.		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 25	CTG 25MM TPDS-T M910 (E08204)) (E08204)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ατγ	Unit Cost	Specs	Date F	RFP Issue
Fiscal Years		and Type			Delivery	×1000	\$		Avail	2
Load, Assemble and Pack			5 2 3 4 5 5 6 7							
FY 96***	Alliant Tech Sys, Inc. New Brighton, MN	C/FP	100	Apr-96	Apr-97	1580	#12.90		•	
FY 96***	Olin Ordnance Marion, IL	C/FP	100	Apr-96	May-97	692	#14.43		<u> </u>	
FY 97***	Alliant Tech Sys, Inc.	C/FP	00	Jun-97	Mar-98	-	#12.20	≺es		Mar-97
FY 97***	Primex Marion II	C/FP	O.	Jun-97	Apr-98	1212	#12.20	Yes		Mar-97
FY 98	TBS		00	Mar-98	May-99	1420	14.21	×es		76-97
FY 99***	TBS	C/FP	00	Mar-99	May-00	2560	14.70	×es		Oct-98
Container PA125										
FY 96	Plant Procured		N/A	N/A		A/N	A/N	A/N		Δ/Ν
FY 97	Plant Procured	N/A	N/A	N/A	N/A	A/A	N/A	A/N		N V
FY 98	TBS		00	Mar-98	Mar-99	47	31.37	Yes	_	Oct-97
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REMARKS: # Actual Contract Price for Multiple Producers TBS - To Be Selected ***Complete Round	ducers							•		

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	JCTIC	N SCH	EDULE			<u>;</u> -	P-1 Item Nomenclature: C	Jencia	iture:	IG 251	e: CTG 25MM TPDS-T M910 (E08204)	DS-T	M910 (E082(<u>4</u>			•		<u> </u>	Date:			ī.	February 1998	1998		
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Exhibit P-21, Production Schedule

								Date:				
		Exhibit P-40, Budget		tem Justification Sheet	ation Sheet					February 1998		
ty/Ser	ty/Serial No:					P-1 Item Nomenclature:	ıre:					
A	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	nmunition					CTG 25MI	CTG 25MM APFSDS-T M919 (E08210)	E08210)		
B Items:	JS:			Code:	Other Related Program Elements:	am Elements:						
			-	∢	-							
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
	527	160		244	289		85	163	279	315		2062
	81.9	22.8	0.0	32.8	41.1	0.0	12.7	24.1	35.0	38.9	0:0	289.3
	81.9	22.8	0.0	32.8	41.1	0.0	12.7	24.1	35.0	38.9	0.0	289.3
	81.9	22.8	0.0	32.8	41.1	0.0	12.7	24.1	35.0	38.9	0.0	289.3
ı												

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Gross Cost Proc Qty

ropriation / Budget Activity/Serial No:

rogram Elements for Code B Items

let Proc (P-1) nitial Spares otal Proc Cost

Flyaway U/C

DESCRIPTION Wpn Sys Proc U/C

The 25mm Armor Piercing Fin Stabilized Discarding Sabot - Tracer (APFSDS-T) M919. The M919 uses the state-of-the-art technology by incorporating high energy propellants, low drag design, and improved penetrator material. This item is Code A, approved for service use. This item has not transitioned to the SMCA and will be procured at actual cost.

JUSTIFICATION:

The M919 will replace the M791 as the primary armor piercing cartridge for use in the 25mm, M242 Automatic Gun which is mounted on the M2/M3 Bradley Fighting Vehicle System, thus increasing its effectiveness against light threat weapon systems and enhancing its survivability. The current M791 does not defeat the current

Type Classification Date: TC Limited Production Urgent, September 1989.

TC Standard September 1993.

Limited Material Release: September 1996

Exhibit P-40, Budget Item Justification Sheet

Exhibit P-5, Weapon	4	Appropriation/ Budget Activity/Serial No.	dget Activity	/Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:		-	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	IUNITION / 1 /		CTG 25	CTG 25MM APFSDS-T M919 (E08210)	919 (E08210)		25mm, M242 Automatic Gun	Automatic Gun	Febr	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	00	TotalCost	Qty	UnitCost	TotalCost ·	Qty	UnitCost	TotalCost	oty	UnitCost	TotalCost	aty	UnitCost
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AMMUNITION HARDWARE 1. Complete Round 2. Other Hardware	∢				30471 534	244	124.88	37731 650	289	130.56			
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SubTotal AMMO Hardware					31005			38381					
Production Support Costs 1. Production Engineering 2. Quality Assurance 3. Acceptance Testing 4. Interim Transportation					1060 120 162 146			1972 210 395 100			٠.		
SubTotal Prod. Support					1488			2677					
COST - Nonrecurring 1. PURSUIT OF 25MM REFERENCE LOT					300								
SubTotal COST-Nonrecurring			*****		300								

TOTAL					32793		134.44	41058		142.07			

Exhibit	Exhibit P-5a, Budget Procurement History and Planning	listory an	nd Planning				-	Date: Feb	February 1998	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item Nomenclature:	Jomenclature:				ľ
PROCUREMENT OF AMMUNITION / 1 / Ammunition		25n	25mm, M242 Automatic Gun			CTG 25MI	CTG 25MM APFSDS-T M919 (E08210)	19 (E08210)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ατγ	Unit Cost	Specs Avail F	Date RF Revsn	RFP Issue Date
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Exhibit P-5A, Procurement History and Planning

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Exhibit P-40,	n Justification Sheet
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						- -		Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No.	Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition			P-1 Item Nomenclature.	ture:	CTG, 3	CTG, 30MM, ALL TYPES (ER8120)	ER8120)		
Program Elements for Code Biltems:	ims:			Code.	Other Related Program Flaments:	ram Flamente						
					Solice related Tollice	Jani Crements.						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prod
Proc Qty												
Gross Cost	207.4	20.1	4.2	13.0	10.1	9.1	10.7	9.7	6.6	10.0	0.0	304.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	207.4	20.1	4.2	13.0	10.1	9.1	10.7	9.7	9.6	10.0	00	304.2
Initial Spares												
Total Proc Cost	207.4	20.1	4.2	13.0	10.1	9.1	10.7	9.7	9.6	10.0	00	304.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
This budget line includes 30MM ALL TYPES.	indes 30MM /	ALL TYPES.										

Exhibit P-5, Weapon Ammo Cost Analysis	∢	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /	iget Activity/ JT OF AMMI	'Serial No: UNITION / 1 /	-	P-1 Line Iterr CTG, 30	P-1 Line Item Nomenclature: CTG, 30MM, ALL TYPES (ER8120)	; (ER8120)		Weapon System Type.		Date: Februa	February 1998
	+	•	mmunition			20,732						30	
Ammunition Cost Flements	_ ნ	TotalCost	FY 96	UnitCost	TotalCost	-Y 97	LinitCost	TotalCost	26 P	UnitCost	TotalCost	- A00	UnitCost
	1		Each	\$	\$000	Each	\$	\$000	Each	\$	000\$	Each	G
CTG 30MM HEDP M789 CTG 30MM TP M788		4169	312510	13.34	9978 2999	258830 299310	38.55 10.02	10125	000686	10.78	9061	760000	11.92
TOTAL		4169			12977			10125			9061		

		Exhibit P-4	Exhibit P-40, Budget Item		Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ıre:					
Ą	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					CTG 30	CTG 30MM HEDP M789 (E09900)	(00660		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				А		•						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	3491			259			18					3768
Gross Cost	144.0	0.0	0.0	10.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	155.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	144.0	0.0	0.0	10.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	155.1
Initial Spares												
Total Proc Cost	144.0	0.0	0.0	10.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	155.1
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The M789 lightweight 30MM high explosive-dual purpose (HEDP) cartridge is comprised of a steel projectile body loaded with HMX explosive and spin-compensated shaped charged liner, an M759 point detonating fuze, and an aluminum cartridge case. It is designed for use in the M230 automatic cannon. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a war reserve item used for combat; procurements will be used to build the war reserve stockpile.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	4	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /	dget Activity, NT OF AMM	Serial No: UNITION / 1 /		P-1 Line Iten CTG 3(P-1 Line Item Nomenclature: CTG 30MM HEDP M789 (E09900)) (E09900)		Weapon System Type:	Туре:	Date: Febru	February 1998
cost ministra			Ammunition	<u> </u>			Ī						
	₽		FY 96	9		FY 97	, , ,	9.	FY 98		i G	FY 99	9
Cost Elements	පි	TotalCost	org C	UnitCost	TotalCost	S.	UnitCost	lotalCost	orig Carly	UnitCost	lotalCost	S.	UnitCost
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Load, Assemble and Pack				, ****	6854	258830	26.48	-					
PBXN 5 Type I Class 3					11	156	72.78						
*RDX Type II Class 7						78	4.73	-					
					•								
Carrie Contract Contr					8120								
SUDIOIAI AMIMO naruware					27								
Production Support Costs													
Production Engineering					371	•							
Quality Assurance Acceptance Testing					- 8								
Interim Transportation					12								
Industrial Stock Support					321 989								
SubTotal Prod. Support					1858								
COST - Nonrecurring										,			
*Government Furnished Material													
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TOTAL					9978		38.55						
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Procurement	and Planning
Exhibit P-5A,	History

Exhibit	Exhibit P-5a, Budget Procurement History and Planning	History a	nd Planning					Date:		
Appropriation / Budget Activity/Social No.			D					_	February 1998	968
Appropriation / Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	Nomenclature CTG	lature: CTG 30MM HEDP M789 (E09900)	(COOCIE)		
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date Date of First	Date of First	οTY	Unit Cost	Specs		RFP Issue
Fiscal Years		and Type			Delivery	Each	6	Avail Now?	Revsn Avail	Date
Load, Assemble and Pack FY 97	Alliant Tech Sys, Inc New Brighton, MN	C/FP		Sep-97	Aug-98	258830	26.48			79-unf
PBXN 5 Type II Class 3 FY 97	Holston Defense (Holston AAP) Kingsport, TN	SS/CPFF 10C	. 20	Oct-97	Nov-97	17239	72.78	Yes		Jul-97
PBXN 5 Type I Class 3 FY 97	Holston Defense (Holston AAP) Kingsport, TN	SS/CPFF IOC	200	Oct-97 Nov-97	Nov-97	156	72.78	Yes		Jul-97
*RDX Type II Class 7 FY 97	Stock Issue	N/A	N/A	N/A	A/N	78	N/A	N/A		N/A
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REMARKS: TBS - To Be Selected										

*Government Furnished Material

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		Exhibit P-4	0, Budget II	tem Justific	Exhibit P-40, Budget Item Justification Sheet			Date:	·	February 1998		
Appropriation / Budget Activity/Serial No.	rial No:					P-1 Item Nomenclature.	ure:					
	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	ımunition					СТС	CTG 30MM TP M788 (E10100)	100)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	5334	1617	313	299	626	760	795	795	795	795		12442
Gross Cost	61.2	20.1	4.2	3.0	10.1	9.1	9.6	9.7	6.6	10.0	0.0	146.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.2	20.1	4.2	3.0	10.1	9.1	9.6	9.7	6.6	10.0	0.0	146.9
Initial Spares												
Total Proc Cost	61.2	20.1	4.2	3.0	10.1	9.1	9.6	9.7	6.6	10.0	0.0	146.9
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION	:											

The 30mm Linked Target Practice (TP) M788 cartridge is an electric primed aluminum cased cartridge which is used in the 30mm M230 chain gun weapon system. The system is used as the secondary armament system on the Apache Advanced Attack Helicopter (AH-64). This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5. Weapon	_	Appropriation/ Budget Activity/Serial No:	get Activity/	Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:		_	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMML Ammunition	UNITION / 1 /		CTG	CTG 30MM TP M788 (E10100)	(E10100)				Febr	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	8	Ę,	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost
		000\$	Each	s	\$000	Each	\$	000\$	Each	\$	000\$	Each	es.
Complete Round		3274	312510	10.48	2441	299310	8.16	8737	939000	9.31	8482	760000	11.16
SubTotal AMMO Hardware		3274			2441			8737			8482		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharde		101 5 38 38 141 141 598			112 3 27 23 96 297			893 22 100 63 310			398 11 170		
SubTotal Prod. Support		895			558			1388			579		
			- 101-Tourist Cont										
TOTAL		4169		13.34	2999		10.02	10125		10.78	9061		11.92

Exhibit P-5, Weapon System Cost Analysis

Exhibit	Exhibit P-5a, Budget Procurement History and Planning	History a	nd Planning					Date:		
Appropriation / Budget Activity/Serial No:		Weanon System Type	Type		1			ŭ.	February 1998	86
PROCUREMENT OF AMMUNITION / 1 / Ammunition		assertion of assertion	ari ypa.		P-1 Line item Nomenclature: CTG	Nomenclature CTC	rure: CTG 30MM TP M788 (E10100)	E10100)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Award Date Date of First	ΔTV	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	
Complete Round FY 96	Alliant Tech Sys, Inc	C/FP	00	Aug-96	Jan-97	312510	10.48	Yes		
FY 97	Alliant Tech Sys, Inc	C/FP	loc	Aug-97	Jan-98	299310	8.16	Yes		May-97
FY 98 FY 99	TBS TIGHT	C/FP	00	Mar-98	Mar-99	939000	9.31	×es		Oct-97
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REMARKS: TBS - To Be Selected			·							

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Exhibit P-21, Production Schedule

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		Exhibit P-4	Exhibit P-40, Budget Item		Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ure:					
A.Q.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MUNITION / 1 / Am	nentition					CTG, 4	CTG, 40MM, ALL TYPES (ER8001)	R8001)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	504.4	32.3	48.9	32.1	30.5	35.6	41.6	44.3	44.1	49.1	0:0	862.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	504.4	32.3	48.9	32.1	30.5	35.6	41.6	44.3	44.1	49.1	0:0	862.9
Initial Spares												
Total Proc Cost	504.4	32.3	48.9	32.1	30.5	35.6	41.6	44.3	44.1	49.1	0:0	862.9
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

This budget line includes 40MM ALL TYPES.

Exhibit P-5, Weapon	Γ	Appropriation/ Budget Activity/Serial No:	dget Activity	'Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:		ĺ	Weapon System Type:		Date	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMI	UNITION / 1 /		CTG, 4	CTG, 40MM, ALL TYPES (ER8001)	S (ER8001)					February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	8		aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost
		000\$	×1000	\$	\$000	×1000	Ş	\$000	×1000	ક	\$000	×1000	\$
CTG 40MM TP M918 LINKED F/MK19 MG CTG 40MM PRACTICE M781 CTG 40MM PRACTICE M385A1 CTG 40MM NON-LETHAL XM1006 CTG 40MM HEDP M430 F/MK 19 CTG 40MM FOAM BATON NON-LETHAL CTG 40MM NON-LETHAL CROWD DISPER		. 33540 1835 13496	316 746	17.29 5.81 18.08	30887	2124 585	2.12	23888 5149 1213 1111	1483 2165 18 11 14	16.11 2.38 67 10	30491 2698 790 1639	2000 1053 57 40	15.25 2.56 13.84
TOTAL	$\neg \uparrow$	48871			32128			30503			35618		

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	erial No:					P-1 Item Nomenclature:	ıre:					
<u>a</u>	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	ımunition					CTG 40MM TP N	CTG 40MM TP M918 LINKED FAMK19 MG (E71100)	19 MG (E71100)		
Program Elements for Code B Items:	ems.			Code:	Other Related Program Elements:	ram Elements:						
				۷.								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	5784	737	1940	2124	1483	2000	2365	2491	2439	2437		23800
Gross Cost	80.6	12.8	33.5	30.9	23.9	30.5	35.3	37.7	37.4	38.6	0.0	361.2
Less PY Adv Proc												
Plus CY Adv Proc										:		
Net Proc (P-1)	80.6	12.8	33.5	30.9	23.9	30.5	35.3	37.7	37.4	38.6	0.0	361.2
Initial Spares												
Total Proc Cost	80.6	12.8	33.5	30.9	23.9	30.5	35.3	37.7	37.4	38.6	0.0	361.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:									٠			

audible/visual signature for day or night firing, the TP for MK19 gun will minimize hazard to troops in the training area. This item is Code A, approved for service use. smoke, and sound upon impact to be seen/heard at a 1200 meter minimum range under standard atmospheric conditions and level terrain. In addition to providing The 40mm Target Practice (TP) cartridge for the MK19 Machine Gun is a high velocity training projectile with realistic signature effects providing sufficient flash, This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. This cartridge is required since firing the standard service 40mm high-explosive dual-purpose (HEDP) M430 cartridge is prohibited at many training ranges. The M918 allows frequent and safe MK19 MOD 3 40mm Grenade Machine Gun and M129 Grenade Launcher training.

TYPE CLASSIFICATION DATE:

1985

Exhibit P-5, Weapon Ammo Cost Analysis	₹	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	udget Activity/? ENT OF AMML Ammunition	Serial No: JNITION / 1 /		P-1 Line Ite CTG 40M	P.1 Line Item Nomenclature: CTG 40MM TP M918 LINKED F/MK19 MG (E71100)	ED F/MK19 MG		Weapon System Type:		Date: Febru	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	8	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
TO ANNOUNCE OF THE PROPERTY OF		\$000	×1000	\$	000\$	×1000	છ	\$000	×1000	\$	000\$	×1000	\$
AMINION HAKDWAKE Load, Assemble and Pack		5652	1940	2 91	5683	2124	2 67	5601	1483	787		0000	
Proj Assy		13914	1999	96.9	13839		632	8185		. r.	11102		1. r
Ctg Case M169		1854	2018	0.92	1743		0.79	1780		1.15		2080	1.05
*Prop M2 SP .019 (LB)		760	53	26.12	669		21.93	553		24.85			19.87
M550 Escape Assy		3039	2044	1.49	3018		1.35	2614		1.67		2106	1.6
Det Stab M55 Link M16A2		665 463	2047	0.32	445 745	2241	0.33	589 1202	1564 1572	0.38	1206	2110	0.57
		1											
SubTotal AMMO Hardware		26347	•	· <u>-</u>	26167			20614			29247		
Production Support Costs													
Production Engineering		817			1088			2107			941		
Quality Assurance Acceptance Testing		37			37			52			ω (
Interim Transportation		<u>\$</u>			249			148			302		
Industrial Stock Support		1120						730			586		
CAWCF Gain/Loss Surcharge		4816			3061								
SubTotal Prod. Support		7193			4720			3274			1840		
				,									
COST - Nonrecurring *Government Furnished Material								_			-596		
SubTotal COST Nonrocurring								•					
		-									969-		

тотаг		33540		17.29	30887	<u> </u>	14.54	23888	*	16.11	30491		15.25
	1												

									Date:		
	Exhibit	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					u.	February 1998	88
Appropriation / Bu	Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	domenclature:				
PROCU	PROCUREMENT OF AMMUNITION / 1 / Ammunition					O	TG 40MM TP	CTG 40MM TP M918 LINKED F/MK19 MG (E71100)	1K19 MG (E71100)	
WBS Cost Elements:	nts:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΩTY	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	×1000	\$	Now?	Avail	
l oad Assemble and Pack	ole and Pack										
FY 96		Martin Marietta (Milan AAP)	SS/CPAF IOC	20	96-Inf	May-97	1940	2.91			
FY 97		Milan, 1N General Dynamics (Milan AAP)	SS/CPAF 10C	00	Apr-97	Aug-98	2124	2.67	Yes		Jan-97
		Milan, TN	140000	0	00	00	4	0			25
₽8 - Y		General Dynamics (Milan AAP)	1477/00	20	Mar-90	Mar-00		0.0 40.0	S) (1) (1)
FY 99		General Dynamics (Milan AAP) Milan, TN	SS/CPAF 10C	100	Dec-98	Apr-00	2000	4.34	Yes		Oct-98
Proj Assy**											
FY96		A&A Electronic									
		Auburndale, FL	C/FP	001	96-unf	Jan-97	1999	96.9			
FY 97		Dayron Corp	C/FP	201	Jul-97	Oct-97	2188	6.32	≺es		Oct-96
		Orlando, FL						1			
FY 98			C/FP	၁၀	Sep-98	Mar-99	1527	5.36			Oct-97
FY 99		TBS	C/FP	200	66-InC	Jan-00	2060	5.39	Yes	-	Oct-98
Cto Case M169	69				-		•				
FY 96		Amron Corp	SS/FP	20	Sep-96	Nov-96	2018	0.92	Yes		
		Waukesha, Wl									
FY 97		Amron Corp	SS/FP	<u>0</u> 0	Jul-97	May-98	2209	0.79	Yes		Apr-97
		Waukesha, Wi					-			-	
FY 98		Amron Corp	SS/FP	100	Mar-98	Mar-99	1542	1.15	Yes		Oct-97
		Waukesha, WI									
FY 99		Amron Corp	SS/FP	201	Mar-99	Jan-00	2080	1.25	≺es		Oct-98
		Waukesha, Wi								1	
REMARKS:	TRS - To be Selected										

RKS: TBS - To be Selected **Pacing Component

Exhibit	Exhibit P-5a Budget Procurement History and Blanning	Hietony ar	nd Diamina					Date:		
	. ca, baager i recalement	ilistory ar	nd riaiming					u.	February 1998	88
Appropriation / Budget Activity/Serial No.		Weapon System Type:	m Type:		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 40MM TP	CTG 40MM TP M918 LINKED F/MK19 MG (E71100)	VIK19 MG (E71100)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Award Date Date of First	ΩTY	Unit Cost	Specs	Date F	RFP Issue
Fiscal Years		and Type			Delivery	×1000	s	Now?	Avail	
*Prop M2 SP .019 (LB)										
FY 96	Alliant Tech Sys (Radford AAP)	SS/FP	201	Apr-96	Oct-96	73	26.12			
FY 97	Adliant Tech Sys (Radford AAP)	SS/FP	100	76-InC	Nov-97	32	21.93	×es		Apr-97
FY 98	Radiord, VA Alliant Tech Sys (Radford AAP)	SS/FP	201	Dec-97	Apr-98	22	24.85	≺es		Oct-97
FY 99	Stock Issue	N/A	N/A	N/A	N/A	30	N/A	× X		A/A
M550 Escape Assy										
FY 96	Dayron Corp Orlando, FL	SS/FP	000	Sep-96	Jan-97	2044	1.49	≺es		
FY 97	Dayron Corp Orlando, FL	SS/FP	100	76-Inc	Jan-98	2237	1.35	×es		Apr-97
FY 98	Dayron Corp	SS/FP	100	Jul-98	Jan-99	1562	1.67	Yes		Oct-97
FY 99	Dayron Corp Orlando, FL	SS/FP	100	Jul-99	Jan-00	2106	1.63	Yes		Oct-98

REMARKS: *Government Furnished Material										
										_

								Date:		
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	listory an	d Planning				-	ı.	February 1998	86
Appropriation / Budget Activity/Serial No:		Weapon System Type:	п Туре:		P-1 Line Item Nomenclature.	lomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					U	TG 40MM TP	CTG 40MM TP M918 LINKED F/MK19 MG (E71100)	1K19 MG (<u>=</u> 71100)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	\$	Now?	Avail	
Det Stab M55 FY 96	Day & Zimmerman (Lone Star AAP) SS/CPFF IOC	SS/CPFF	000	Mar-96 Oct-96	Oct-96	2047	0.32			
	Texarkana, TX					**				
FY 97	Day & Zimmerman (Lone Star AAP) SS/CPFF IOC	SS/CPFF	201	76-Inc	Feb-98	2241	0.33	≺es		Apr-97
	Texarkana, TX	L		200	9	70	c c	>		7
FY 98	Day & Zimmerman (Lone Star AAP)	SS/CPFF 10C	200	Mar-98	8-13O	400	0.38	y es		/e-100
0 >	Texalkalla, 1A Day & Zimmerman (Lone Star AAP)	SS/CPFF 10C	20	Apr-99	Oct-99	2110	0.57	Yes		Oct-98
	Texarkana TX			<u>.</u>		:			-	}
Link M16A2										
FY 96	Valentec Wells	C/FP	00	Apr-96	Jan-97	2057	0.22			
	Costa Mesa, CA				:					
FY 97	Valentec Wells	C/FP	200	Apr-97	May-98	2252	0.20	\ \ \		Oct-96
	Costa Mesa, CA				9		1			70 70
FY 98	Sal	7	200	Se-Inc	Jan-99	7/61	0.70	Yes		/a-100
FY 99	TBS		00	96-Inc	Jan-00	2120	0.77			Oct-98
						•				
REMARKS: TBS - To be Selected										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCTION	SCH	EDUI	щ			<u>-</u>	P-1 Item Nomenclature; CTG 40M	omenc	sture;	nciature: CTG 40MM TD M918 I INKED EMM19 MG (E71100)	10181	Z Z	WW10	Ų.	74400				Date:	:: :							
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	i					P-1 Item Nomenclature:	clature:								Date:						
FY 98 / 99 BUDGET PRODUCTION SCHEDULE	013	N SCH	EDULE	1	J	υ	CTG 40MM TP M918 LINKED F/MK19 MG (E71100)	TP M91	3 LINKE	O F/MK1	9 MG (E.	1100)			\dashv		ı	Februs	February 1998		
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	erial No:					P-1 Item Nomenclature:	ure:					
PI	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	ımunition					CTG 40Mi	CTG 40MM PRACTICE M781 (E74200)	(E74200)		
Program Elements for Code B Items:	ms.			Code:	Other Related Program Elements.	am Elements:						
				∢	i							- 41
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	11393	1641	316	585	2165	1053	1505	1505	1505	1505		23173
Gross Cost	23.6	6.2	1.8	1.2	5.1	2.7	3.7	3.8	3.8	3.8	0.0	55.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	23.6	6.2	1.8	1.2	5.1	2.7	3.7	3.8	3.8	3.8	0.0	55.7
Initial Spares												
Total Proc Cost	23.6	6.2	1.8	1.2	5.1	2.7	3.7	3.8	3.8	3.8	0.0	55.7
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The M781 practice cartridge replaced the M407 practice cartridge. The M781 is a low cost, unfuzed fixed round of practice ammunition ready for use as issued and is signature. The propulsion system consists of a standard .38 caliber blank. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99. band. The ogive is made of a frangible plastic material and contains a colored dye in granular form, the consistency of talcum powder, which is used to generate a compatible with the M79 and M203 Grenade Launchers. The cartridge case is made of plastic material and the projectile is also plastic with an aluminum rotating

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1978

it P-5, V	∢	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /	iget Activity/ ut OF AMMU	Serial No: JNITION / 1 /		P-1 Line Iter CTG 40M	P-1 Line Item Nomenclature: CTG 40MM PRACTICE M781 (E74200)	781 (E74200)		Weapon System Type:		Date: Februs	February 1998
Affillio Cost Alialysis		4	Ammunition										
Ammunition	₽	:	FY 96			FY 97			FY 98			FY 99	
S	CD	TotalCost	Qty	UnitCost	#	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost
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AMMONITION HARDWARE Complete Round		1441	316	4.56	1052	585	1.80	4443	2165	2.05	2329	1053	2.21
													<u> </u>
SubTotal AMMO Hardware		1441			1052			4443			2329		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		45 2 17 17 5 61			£ + + + + + + + + + + + + + + + + + + +			454 11 51 32 158			312		
SubTotal Prod. Support		394			189			706			369		
TOTAL		1835		5.81	1241	·	2.12	5149		2.38	2698		2.56

Exhibit	Exhibit P-5a Budget Procurement	Hietory a	Irement History and Blanning			,		Date:			_
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Appropriation / Budget Activity/Serial No:		Weapon System Type:	ım Type:		P-1 Line Item	P-1 Line Item Nomenclature:					-
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 40N	CTG 40MM PRACTICE M781 (E74200)	'81 (E7420	6		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Award Date Date of First	αту	Unit Cost	Specs	Date	RFP Issue	_
Fiscal Years		and Type			Delivery	×1000	\$	Now	Avail	Da e	
Complete Round	***********										
FY 96	Action Mfg	C/FP	100	Nov-96	Jul-97	316	4.56				
FY 97	Philadelphia, PA Action Mfg	C/FP	00	Aug-97	Mav-98	585	1 80	> >		May 07	
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FY 98	TBS	C/FP	00	Aug-98	Mar-99	2165	2.05	×es		Oct-97	
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REMARKS: TBS - To Be Selected								1	1		

item No. 12 Page 12 of 16

Exhibit P-21, Production Schedule

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCTION	SCHE	EDULE	111			P-1 Item Nomenclature: CTG	Nomen	clature: CT	ire: CTG 40MM PRACTICE M781 (E74200)	PRAC	TICE M	781 (E	74200)					Date:			a.F.	February 1998	1998		
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Appropriation / Budget Activity/Serial No:	//Serial No:					P-1 Item Nomenclature:	ature:					
PRC	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / A	mmunition					CTG MORTAR	CTG MORTAR 60MM 1/10 PRAC M766 (E72000)	M766 (E72000)		
Program Elements for Code B Items:	ltems:			Code:	Other Related Program Elements:	gram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2003 To Complete	Total Prog
Proc Qty	6	2	6	8			4	9	5	9		49
Gross Cost	6.4	3.3	6.2	5.2	0.0	0.0	5.3	4.3	4.4	4.7	0.0	39.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.4	3.3	6.2	5.2	0.0	0.0	5.3	4.3	4.4	4.7	0.0	39.8
Initial Spares												
Total Proc Cost	6.4	3.3	6.2	5.2	0.0	0.0	5.3	4.3	4.4	4.7	0.0	39.8
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

(HE) rounds used in the 60mm mortar training strategy. It consists of a M779 point detonating practice fuze which provides flash, bang and smoke; a steel body which approximates the shape of the 60mm HE service round; and an ignition cartridge which provides the limited propulsion requirement. The M766 60mm mortar cartridge is a low-cost, short range, refurbishable practice round that will replace a majority of the standard High Explosive After firing, the round is retrieved and refurbished. Refurbishment will be accomplished by replacing the fuze, the obturating ring, range adjustment plugs, the ignition cartridge, dud plugs and the breech plug. The round is designed to be used at least 25 times (I.e., original firing plus 24 refurbishments). This item is code A: It has been type classified and has been approved for service use.

JUSTIFICATION:

This is a training-unique item; not used in combat. Use of the M766 will reduce training costs and environmental impacts while expanding the training environment by allowing soldiers to train in locations other than full ranges or ranges used for firing full range service rounds. The FY00 procurement supports annual peacetime training requirements and builds toward authorized depot level for training unique ammunition.

Type Classification Date: JUN 93 Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	Budget Activi ENT OF AMM Ammunition	ity/Serial No: IUNITION / 1 /		P-1 Line It CTG MO!	P-1 Line Item Nomenclature: CTG MORTAR 60MM 1/10 PRAC M766 (E72000)	e: 0 PRAC M766		Weapon System Type.	n Type:	Date: Febru	February 1998
Ammunition	₽	11	FY 96			FY 97			FY 98			FY 99	
Cost Elements		TotalCost	ğ	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
AMMUNITION HARDWARE 1.Complete Round 2. Refurbish Kits		60	9350 224400	18 18	\$000 633 3329	Each 7666 183984	83 18	0000\$	Each	и	000\$	Each	₩.
SubTotal AMMO Hardware		4765			3962								
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation		1126 253 54	V- WAT W. 2		940 220 47 40							*****	
SubTotal Prod. Support		1479			1247								
COST - Nonrecurring							·						
SubTotal COST-Nonrecurring		***************************************											
TOTAL		6244			6209								

								Date:		
Exhibit P-5a,	5a, Budget Procurement History and Planning	History 8	and Planning					Fe	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type:	em Type:		o.1 Line Item	P-1 Line Item Nomenclature:	ïe:			
PROCUREMENT OF AMMUNITION / 1 / Ammunition						TG MORTAR	CTG MORTAR 60MM 1/10 PRAC M766 (E72000)	C M766 (I	72000)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΔT	Unit Cost	_	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	s,	Now?	Avail	
1.Complete Round FY 96 FY 96 FY 97	Pocal Industries, Moscow, PA Pocal Industries, Moscow, PA Pocal Industries, Moscow, PA	OPT OPT OPT	TACOM TACOM TACOM	Feb-97 Aug-97 Feb-97	May-98 Sep-98 Nov-98	4849 4501 7666	81 83	YES	N/A	
2. Refurbish Kits FY 96 FY 96 FY 97	Pocal Industries, Moscow, PA Pocal Industries, Moscow, PA Pocal Industries, Moscow, PA	OPT OPT 0PT	TACOM TACOM TACOM	Feb-97 Aug-97 Feb-97	May-98 Sep-98 Nov-98	116376 108024 183984	<u>8</u> 8 8	YES	Ą.	
REMARKS: Award of FY95 Contract with FY96 option was delayed pending successful completion of first article test on initial (FY93) contract. Initial FY96 and FY97 requirements were awarded at the same time as FY95 basic contract.	ption was delayed pending succes were awarded at the same time as	ssful comple FY95 basid	etion of first article test on ir c contract.	FY93) contract					

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	Ù	Exhibit P-40, E	, Budget It	3udget Item Justification Sheet	cation She	et		<u> </u>		February 1998		
Appropriation / Budget Activity/Serial No:	/Serial No:					P-1 Item Nomenclature:	ature:					
PRC	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / A	mmunition					CTG MORTAR &	CTG MORTAR 60MM ILLUM M721/M767 (E70400)	/M767 (E70400)		
Program Elements for Code B Items:	Items:			Code:	Other Related Program Elements:	gram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prod
Proc Qty		25	52	28								105
Gross Cost	4.7	10.6	22.4	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.7	10.6	22.4	13.1	0.0	0.0	0.0	0.0	0.0	0.0	00	50.8
Initial Spares												
Total Proc Cost	4.7	10.6	22.4	13.1	0:0	0.0	0.0	0.0	0.0	0.0	0.0	50.8
Flyaway U/C												
Wpn Sys Proc U/C												
DESCENETION:												

(HE) Cartridges, M720 (Range 3,200-3,800 Meters Maximum). This is triple the range of the ammunition it replaces. The HE and Illum Cartridges are including Airborne, Air Assault and Ranger. The M721 will provide illuminating capability at the same effective range as the companion High Explosive The 60mm Mortar Illuminating cartridge is designed for use with the M224 lightweight company mortar system (LWCMS) in all light infantry battalions basically similar, thus allowing a gun to illuminate and fire on the same target without adjustments. The FY96 and FY97 Procurements include both white light and Infrared Illuminant. This Item is Code A. it is Type Classified (TC) and has been approved for service use.

JUSTIFICATION:

The FY97 procurement meets the annual peacetime training requirements and builds a war reserve stockpile in support of fielded Mortar Weapons.

Type classification date: white light SEP 87; infrared JUN 98 Acquisition manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis	App	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	Budget Activity ENT OF AMMU Ammunition	//Serial No: INITION / 1 /		P-1 Line Iten CTG MORT	P-1 Line Item Nomenclature: CTG MORTAR 60MM ILLUM M721/M767 (E70400)	: M M721/M767		Weapon System Type:		Date: Februa	February 1998
Amminition			FY 96			FY 97			FY 98			FY 99	
s		_		UnitCost	TotalCost		UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
	H	\$000	Each	\$	\$000	Each	\$	\$000	Each	e s	\$000	Each	€₽
AMMUNITION HARDWARE 1. CTG,M721,LAP/ CTG,XM767,LAP		3195	19366 32710	165 205	1256 3970	7790 19790	161 201						
2. PROP CHG M204 3. PROP CHG M235 4. IGN CTG M702 5. FUZE, M776 MTSQ			215636 54159 54159	124	567 373 3636		5 13 127	•.					
6. FIN M27			54159	ιΩ	179		ω						
SubTotal AMMO Hardware		18875	<u> </u>		9981								
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation		1007 526 302 82			1974 358 168 54								
SubTotal Prod. Support		1917			2554								
COST - Nonrecurring 1. First Article Test / IPT 2. Calibration Lot		1586			592								
SubTotal COST-Nonrecurring		1586			592								
					-								
TOTAL		22378		430	13127		476						

Exhibit P-5a, Budg	5a, Budget Procurement History and Planning	History	and Planning					Date:		
Appropriation / Budget Activity/Serial No:		Weapon System Type	tem Type:		O 1 Line Ham	D 1 Line Hom Nomonalature		١	repruary 1998	288
PROCUREMENT OF AMMUNITION / 1 / Ammunition						rig MORTAR	CTG MORTAR 60MM ILLUM M721/M767 (E70400)	721/M767	(E70400)	
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	γTΩ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
riscal reals		and Type			Delivery	Each	\$	Now?	Avail	
1. CTG,M721,LAP FY 96 FY 97	Pine Bluff Arsenal, Pine Bluff, AR Pine Bluff Arsenal, Pine Bluff, AR	SS/CR SS/CR	TACOM TACOM	Sep-96 Feb-97	Apr-98 Sep-98	19366 7790	165	≺es ≺es	N N N A	
CTG,XM767,LAP FY 96 FY 97	Pine Bluff Arsenal, Pine Bluff, AR Pine Bluff Arsenal, Pine Bluff, AR	SS/CR SS/CR	TACOM TACOM	Sep-96 Feb-97	Feb-98 Nov-98	32710 19790	205	Yes Yes	A A	
2. PROP CHG M204 FY 96	GDOS(Milan AAP), Milan, TN	SS/CPAF IOC	00	Jun-96 Jul-97	Jul-97	216636	9	Yes	A A	
3. PROP CHG M235 FY 97	Unknown	C/FP	TACOM	Jan-98 Aug-98	Aug-98	114733	Ŋ	Yes	N/A/A	Jun-97
4. IGN CTG M702 FY 96 FY 97	GDOS(Milan AAP), Milan, TN GDOS(Milan AAP), Milan, TN	SS/CPAF IOC C/FP TAC	IOC TACOM	Sep-96 Sep-97	Jun-97 Jun-98	54159 28683	11	Yes	A A	
5. FUZE, M776 MTSQ FY 96 FY 96 FY 97 FY 97	Diehl GMBH, Schramberg, GER Diehl GMBH, Schramberg, GER Diehl GMBH, Schramberg, GER Diehl GMBH, Schramberg, GER	SS/FP OPT OPT SS/FP	10C 10C 10C TACOM	Jul-96 Sep-96 Feb-97 Aug-97	Jan-97 Mar-97 Sep-97 Jun-98	23978 30181 24245 4438	124 124 127	s × × × × × × × × × × × × × × × × × × ×	A A A A	
6. FIN M27 FY 96 FY 97	Wilkinson Míg Co., Ft. Calhoun, NE Wilkinson Míg Co., Ft. Calhoun, NE	C/FP C/FP	IOC TACOM	Sep-96 Jun-97	Mar-97 Apr-98	54159	യവ	Yes	N/N N/A	
REMARKS: Pine Bluff Arsenal is a government owned - govern		O) facility	nment operated (GOGO) facility. Work is nerformed through work orders	work orde	100 00	- 400-4-			1	

Pine Bluff Arsenal is a government owned - government operated (GOGO) facility. Work is performed through work orders, not contracts. Sole source to Diehl due to expertise and non-availability of a U.S. produced mortar time fuze.

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			. Oafe		February 1998		
Appropriation / Budget Activity/Serial No.	rial No:					P-1 Item Nomenclature:	ure:					
ä	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am.	munition					CTG MORTAR	CTG MORTAR 60MM SMOKE WP M722 (E70500)	M722 (E70500)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	164				23							187
Gross Cost	21.0	0.0	0.0	0.0	4.6	0.4	0.3	0.0	0.0	0.0	0.0	26.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	21.0	0:0	0.0	0.0	4.6	0.4	0.3	0:0	0.0	0.0	0.0	26.3
Initial Spares												
Total Proc Cost	21.0	0.0	0.0	0.0	4.6	0.4	0.3	0.0	0.0	0.0	0:0	26.3
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												•

phosphorous filler, a thin wall shell, fin assembly, a four increment M204 propelling charge, and ignition cartridge. The operating range is from 70 to 3,490 meters. The M722, 60MM WP Smoke Cartridge is used on the M224 Lightweight Company Mortar System (LWCMS). It provides a smoke cloud for spotting or marking a target area. The M722 is assembled with the M745 Point Detonating Fuze which functions on impact. The cartridge has an integral burster charge, white This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

The need for a LWCMS resulted from an operational requirement for a lightweight mortar to enhance the firepower and mobility of small infantry units, and to increase the combat effectiveness of these units in scenarios where manportability is essential. The requirements established a need to retain most of the capabilities of the standard 81MM Mortar, but with greatly reduced weight, and improved portability and ease of handling. Procurement builds a war reserve inventory in accordance with the Army's procurement goals. FY 99 dollars fund annualized support cost.

TYPE CLASSIFICATION DATE:

September 1991

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	dget Activity/ ENT OF AMMI Ammunition	/Serial No: UNITION / 1 /		P.1 Line Iter CTG MOF	P-1 Line Item Nomenclature: CTG MORTAR 60MM SMOKE WP M722)KE WP M722		Weapon System Type:	Туре:	Date: Febri	February 1998
Ammunition	₽		FY 96			FY 97	(=1000)		FY 98			FY 99	
Cost Elements	S	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		000\$	Each	ક્ર	\$000	Each	\$ >	\$000	Each	S	\$000	Each	\$
AMMUNITION HARDWARE Load, Assemble and Pack								1921		83.53			
Proj MPTS M27 Fin Assembly								362	23920	15.12			
LAP Chg Prop M204								<u> </u>		0.96			
Container Assy M204								165	<u>σ</u>	1.75			
Mitrocellaiose vvv GR A (LB) M702 Ignition Cartridge						·		215	73920	4.04 0.7			
M9 Flake .006 F/60MM (LB)								11		57.90			
M10 Flake .008 (LB)								36		19.59			
Det Stab M55								တို့ တိ	24150	2.26		,	
Fuze M745			1 1					51		2.16			
FZ Mpts M / 45 *Comp A-5 Class 1/1 B)								943	 	39.44	-		
PBXN-5 Type 1 Class 3 (LB)) 	26-	83.04			
SubTotal AMMO Hardware								3996					
Production Support Costs								C					
Quality Assurance								S 6			346 29		
Acceptance Testing Interim Transportation								47					
Industrial Stock Support		4						145					
CAWCF Gain/Loss Surcharge													
SubTotal Prod. Support								537			375		
COST - Nonrecurring													
*Government Furnished Material								ь				VA 8	
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SubTotal COST-Nonrecurring								ကု					
TOTAL								4638		201.65	375		· · ·
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Item No. 15 Page 2 of 6 156

			ā					Date:		
Exhibit	Exhibit P-5a, Budget Procurement History and Planning	istory ar	nd Planning					F	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		²-1 Line Item №	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					,	CTG MORTAR	CTG MORTAR 60MM SMOKE WP M722 (E70500)	JP M722 (E	70500)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QΤΥ	Unit Cost			RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now	Avail	
Load, Assemble and Pack FY 98	Pine Bluff Arsenal Pine Bluff , AR	SS/FP	0	Feb-98	Sep-99	23000	83.53	Yes		Oct-97
Proj MPTS FY 98	18 S	C/FP	200	Apr-98	May-99	23920	15.12	Yes		Oct-97
Fin Assy M27 FY 98	TBS	C/FP	. 00	Apr-98	May-99	23920	5.48	Yes		Oct-97
LAP Chg Prop M204 FY 98	General Dynamics (Milan AAP) Milan, TN	SS/CPAF 10C	00	Mar-98	Mar-99	94300	96.0	Yes		Oct-97
Container Assy M204 FY 98	ARMTEC Defense Prod Coachella, CA	SS/FP	00	Apr-98	Jan-99	94300	1.75	ХeУ		Oct-97
Nitrocellulose WW GR A (LB) FY 98	Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	20	Apr-98	36-Inc	759	4.04	≺es		Oct-97
M720 Ignition Cartridge FY 98	General Dynamics (Milan AAP) Milan, TN	SS/CPAF IOC	00	Mar-98	Mar-99	23920	8.97	Yes		Oct-97
REMARKS: TBS - To be Selected									1	

S: TBS - To be Selected

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	LAIIIDIL F.5a, Dudget Frocurentent nistory and Planning	listory a	id Planning					Fe	February 1998	98
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	vomenclature:				
						CTG MORTAR	CTG MORTAR 60MM SMOKE WP M722 (E70500)	/P M722 (E	70500)	
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	_	Avail	
M9 Flake .006 (LB) FY 98	Alliant Tech Sys (Radford AAP) Radford, VA	SS/FP	201	Apr-98	30-Ju	184	57.90	Yes		Oct-97
M10 Flake .008 (LB) FY 98	Alliant Tech Sys (Radford AAP) Radford, VA	C/FP	00	Apr-98	Jul-98	1840	19.59	Yes		Oct-97
Det Stab M61 FY 98	Day & Zimmerman (Lone Star AAP) Texarkana, TX	SS/CPFF IOC	201	Mar-98	Dec-98	24150	2.26	×es		Oct-97
Det Stab M55 FY 98	Day & Zimmerman (Lone Star AAP) Texarkana, TX	SS/CPFF	201	Mar-98	Dec-98	23690	0.38	Yes		Oct-97
Fuze M745 FY 98	General Dynamics (Milan AAP) Milan, TN	SS/CPAF 10C	201	Mar-98	96-Inf	23690	2.16	Yes		Oct-97
Fz Mpts M745 ** FY 98	TBS	C/FP	200	Apr-98	Apr-99	23920	39.44	×es		Oct-97
REMARKS: **Pacing Component TBS - To Be Selected									1	

Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	History an	nd Planning					F.	February 1998	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2.1 Line Item I	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG MORTAR	CTG MORTAR 60MM SMOKE WP M722 (E70500)	VP M722 (E	70500)	
WBS Cost Elements.	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΩTY	Unit Cost		Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	
*COMP A-5, Class 1 (LB) FY 98	Stock Issue	N/A	N/A	N/A	N/A	196	N/A	N/A		N/A
PBXN-5 Type 1, Class 3 (LB) FY 98	Holston Defense (Holston AAP) Kingsport, TN	SS/CPFF 10C	202	Mar-98	Sep-98	2	83.04	Yes	· · · · · · · · · · · · · · · · · · ·	Oct-97
REMARKS: *Government Furnished Material										

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	Ш	xhibit P-40	, Budget It	tem Justifi	Exhibit P-40, Budget Item Justification Sheet	e e				February 1998		
Appropriation / Budget Activity/Serial No:	Serial No:					P-1 Item Nomenclature:	iture:					
PRO	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / A	mmunition					CTG MORTA	CTG MORTAR 60MM HE M720A1 (E67303)	A1 (E67303)		
Program Elements for Code B Items:	items:			Code:	Other Related Program Elements.	gram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2003 To Complete Total Prog	Total Prog
Proc Qty						47	39	43	43	22	A/A	194
Gross Cost	0.0	0.0	0.0	1.4	0.0	20.5	16.2	14.9	15.1	8.7	0.0	6.97
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	1.4	0.0	20.5	16.2	14.9	15.1	8.7	0:0	76.9
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	1.4	0.0	20.5	16.2	14.9	15.1	8.7	0.0	76.9
Flyaway U/C												
Wpn Sys Proc U/C	•											

DESCRIPTION:

incorporation of an insensitive munition. The round uses a proximity fuze setting to burst at a height over the target which is optimized for lethality. The M720A1 version incorporates the more reliable and countermeasure resistant M734A1 Multi-option fuze. This item is code A: it has been approved for The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and projectile body with a TNT or composition B explosive fill. A materiel change funded in FY97 should result in a change to the explosive fill by service use.

JUSTIFICATION: The FY99 procurement builds a war reserve stockpile in support of fielded Mortar Weapons.

Type Classification date: M720 STD JAN86; M720A1 STD FEB98 Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1. Ammunition	Budget Activ ENT OF AMA Ammunition	vity/Serial No: MUNITION / 1 /		P-1 Line I CTG I	P-1 Line Item Nomenclature: CTG MORTAR 60MM HE M720A1 (E67303)	re: HE M720A1	Weapon System Type	stem Type:	Date: Febru	February 1998
Ammunition			FY 96			FY 97		FY	FY 98		FY 99	
	8	TotalCost	oţ,	UnitCost	TotalCost	aty	UnitCost	st	ty UnitCost	st TotalCost	aty	UnitCost
AMMUNITION HARDWARE	†	0000	Each	A	\$000	Each	69	\$000 Each	ch \$	\$000	Each	€
1. C.I.G, M/20A1, LAP 2. *SHELL BODY 3. PROP CHG M235 4. IGN CTG M702 5. FUZE. M734A1 MO									-	3234 253 972 639		70 10 6 15
6. FIN M27										12886 307	48360	266
SubTotal AMMO Hardware										18291		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						520 118 66		
SubTotal Prod. Support			,	,, 						737		
COST - Nonrecurring First Article M720A1 Qualification Engr & Test *GFM		1400								1500		
SubTotal COST-Nonrecurring		1400						<u> </u>		1500		
TOTAL		1400			·					20528		442

4 G 4:4:42	En Budant Drocurement	Jie4on,	and Diamina					Date:		,
	Exhibit P-5a, budget Procurement History and Plaining	listory o	and Planning					Ĭ,	February 1998	98
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:	em Type:		2-1 Line Item	P-1 Line Item Nomenclature: CTG MORTAR	Nomenclature: CTG MORTAR 60MM HE M720A1 (E67303)	20A1 (E6	7303)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΩTY	Unit Cost		_	RFP Issue Date
Fiscal Years 1. CTG. M720A1. LAP		and Type			Delivery	Each	₩.	Now	Avail	
FY 99	Unknown	C/FP	ТАСОМ	Mar-99	Sep-00	46500	02	Yes		Oct-98
2. SHELL BODY	Inknown	G/FP	TACOM	Mar-99 Mar-00	Mar-00	24180	Ç	× 6		86-150
ח ה				2	3	3	2	3		
3. PROP CHG M235 FY 99	Unknown	OPT	TACOM	Jan-99	Sep-99	190650	വ	Yes		76-un
4 IGN CTG M702								***		
FY 99	Unknown	C/FP	TACOM	Mar-99	Dec-99	48360	13	Yes		
5. FUZE, M734A1 MO										
FY 99	Unknown	OPT	TACOM	Jan-99	Feb-00	48360	266	≺es		Feb-98
6. FIN M27										
FY 99	Unknown	C/FP	TACOM	Mar-99 Dec-99	Dec-99	48360	9	Yes		Oct-98
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REMARKS: 50% of the shell bodies will be taken from existing	of from existing stocks, remainder will be a new procurement.	il be a new	procurement.							
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FY 98 / 99 BUDGET PRODUCTION SCHEDU	UCTIC	OS NC	HE CHANGE	ULE			<u>-</u> <u>-</u>	r-i item Nomenciature: CTG MOR	E 0	CTG MORTAR 60MM HE M720A1 (E67303)	s. Yrtar	; 60MI	뿔	M720	. 14 (F)	37303	_				Cate	 			February 1998	arv 16	86		
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Appropriation / Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition Program Elements for Code B lements Code. Other Related Program Elements. CTG 8:1MM INFRARED (IR) ILLUM XM816 (ES0000) Program Elements for Code B lements Code. Other Related Program Elements. CTG 8:1MM INFRARED (IR) ILLUM XM816 (ES0000) Program Elements for Code B lements Code. Other Related Program Elements. CTG 8:1MM INFRARED (IR) ILLUM XM816 (ES0000) Proc Qty Prior Years FY 1996 FY 1999 FY 1999 FY 2000 FY 2001 FY 2003 To Complete Transmission of Complete Transm			Exhibit P-40, Bu	, Budget It	em Justific	idget Item Justification Sheet	et		Date:	:	February 1998		:
or Years FY 1995 FY 1996 FY 1999 FY 2000 FY 2000 FY 2000 FY 2002 FY 2003 To Complete 0.0 0.0 0.0 0.0 9.4 0.0 <td>Appropriation / Budget Activity/. PROC</td> <td>Serial No: CUREMENT OF AN</td> <td>MUNITION / 1 / A</td> <td>mmunition</td> <td></td> <td></td> <td>P-1 Item Nomenck</td> <td>afure:</td> <td>CTG 81MM INFR</td> <td>ARED (IR) ILLUM</td> <td>XM816 (E90000)</td> <td></td> <td></td>	Appropriation / Budget Activity/. PROC	Serial No: CUREMENT OF AN	MUNITION / 1 / A	mmunition			P-1 Item Nomenck	afure:	CTG 81MM INFR	ARED (IR) ILLUM	XM816 (E90000)		
Prior Years FY 1995 FY 1996 FY 1999 FY 2000 FY 2002 FY 2003 To Complete 0.0	Program Elements for Code B	tems:				Other Related Pro	ogram Elements:						
8 8 8 0.0 0.0 0.0 9.4 0.0		Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
0.0 0.0 0.0 9.4 0.0 <td>Proc Qty</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td>	Proc Qty						8						8
0.0 0.0 <td>Gross Cost</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>9.4</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>9.4</td>	Gross Cost	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	9.4
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Less PY Adv Proc												
t 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Plus CY Adv Proc												
st 0.0 0.0 0.0 0.0 9.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	9.4
st 0.0 0.0 0.0 0.0 9.4 0.0 0.0 0.0 0.0 0.0 0.0	Initial Spares												
Flyaway U/C Wpn Sys Proc U/C	Total Proc Cost	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	9.4
Wpn Sys Proc U/C	Flyaway U/C												
	Wpn Sys Proc U/C												

DESCRIPTION

The round is used to illuminate target areas during night operations. It consists of a two-piece body filled with illuminating flare, fuze, and tail assembly. It bursts over a target, producing infrared illumination which greatly enhances the performance of night vision devices. This item is code A: it has been type classified and approved for service use.

JUSTIFICATION

The FY99 Procurement builds a war reserve in support of fielded mortar weapons.

Type classification date: TC LP JUL94; TC STD NOV00 Acquisition manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis	A. H	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /	Juget Activi	ty/Serial No: UNITION / 1 /		P-1 Line I CTG 8	P-1 Line Item Nomenclature: CTG 81MM INFRARED (IR) ILLUM	e: (IR) ILLUM		Weapon System Type:	л Туре:	Date: Febru	February 1998
Amminition	₽		FY 96			FY 97	AMB16 (E90000)	(Or	- 88 - 24			ار اد	
s	٠.	TotalCost	àg	UnitCost	TotalCost	ģ	UnitCost	TotalCost	Ao	UnitCost	TotalCost	2 AC	l InitCost
		\$000	Each	S	\$000	Each	\$	\$000	Each	€	\$000	Each	€
AMMONITION HARDWARE 1. CTG, XM816, LAP 2. Shell bodies 3. Prop Chg M219 4. Ign Ctg M752 5. Fuze M772 6. Other Hardware	•										2229 208 158 149 1235 44	8000 8320 32800 8320 8320	279 25 5 18 148
SubTotal AMMO Hardware								-			4023		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation											1439 387 373 132		
SubTotal Prod. Support											2331		
COST - Nonrecurring First Article Testing/IPT									y 		3012		
SubTotal COST-Nonrecurring									THE STATE OF THE S		3012		
TOTAL	4										9366		1171

Exhibit P-5	Exhibit P-5a, Budget Procurement History and Planning	listory a	ind Planning				3	Date: Feb	February 1998	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	ım Type:		2-1 Line Item	P-1 Line Item Nomenclature:	<u>.</u>			
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTC	3 81MM INF	CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)	M XM816 (E90000)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΥTΩ	ost		_	RFP Issue Date
ars 3, XM816, LAP					Delivery	Each		Now	Avail	
FY 99	Pine Bluff Arsenal, Pine Bluff, AR	SS/CR	ACOM	Mar-89	Dec-00	0008	6/Z			
2. Shell Bodies FY 99	ТАСОМ	C/FP	TACOM	Mar-99	Feb-00	8320	25			
3. Prop Chg M219 FY 99	Unknown	. TAO	TACOM	Mar-99	Feb-00	32800	ហ		,	
4. Ign Ctg M752 FY 99	Unknown	C/FP	ТАСОМ	Mar-99 Feb-00	Feb-00	8320	18		•	
5. Fuze M772 FY 99	Diehl GMBH Schramberg, Germany	SS/FP	TACOM	Mar-99	Feb-00	8320	148			
								14		
REMARKS: Sole source to Pine Bluff Arsenal to workload specified mission facility. Sole source to Diehl GMBH as only responsible source. Shell body contract limited to North America competition.	workload specified mission facility. esponsible source. America competition.			·]]		1		

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	DUCTIC	ON SC	HED	ULE				2	CTG 81MM IN	TG 811	MMIN	CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)	ED (IR) ILLU	×Ψ×	316 (E	00006	_				<u>a)</u>			Febru	February 1998	968		
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Appropriation / Budget Activity/Serial No:	/Serial No:					P-1 Item Nomenclature:	ature:					
PRC	PROCUREMENT OF AMMUNITION / 1 / Ammu	AMUNITION / 1 / A	mmunition				CTG	AORTAR 120MM	CTG MORTAR 120MM FULL RANGE PRACTICE M931 (E25507)	CTICE M931 (E2	5507)	
Program Elements for Code B Items:	Items:			Code:	Other Related Program Elements:	gram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			37	127	78	- 6	96	93	94	92		714
Gross Cost	0.0	0.0	18.2	50.9	31.7	39.7	39.9	39.4	40.2	39.5	0.0	299.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	18.2	50.9	31.7	39.7	39.9	39.4	42.0	39.5	0.0	301.4
Initial Spares												
Total Proc Cost	0:0	0.0	18.2	50.9	31.7	39.7	39.9	39.4	42.0	39.5	0.0	301.4
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

used in 120mm mortar training. It consists of a M781 point detonating practice fuze which simulates the multi-option fuze and provides flash, bang and smoke; a steel body which approximates the shape of the 120mm HE service round; and an ignition cartridge and propelling charge which provide the The M931 120mm mortar cartridge is a low-cost, full range, practice round that will replace a percentage of the standard High Explosive (HE) rounds propulsion requirement. This item is code A. It has been type classified and has been approved for service use. This round is produced from a performance specification.

JUSTIFICATION:

This is a training-unique item; not used in combat. Use of the M931 will reduce training costs and environmental impacts. The FY99 procurement supports annual peacetime training requirements and builds toward authorized depot level for training unique ammunition.

Type classification date: TC (STD) AUG96 Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	udget Activ	ity/Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature	:6	_	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 /	AT OF AMA	IUNITION / 1 /		CTG MO	CTG MORTAR 120MM FULL RANGE	ULL RANGE				Febru	February 1998
Amminition	9	`	EV OF			PR/	PRACTICE M931 (E25507)	E25507)					
Cost Flements	. G	TotatCost) A	InitCost	TotalCost) A C	to Other	Total	FΥ 98	7 - 0		Ε <u>γ</u> 39	
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AMMUNITION HARDWARE			200		200		A	0000	Lach	e P	0000	Each	φ.
1. Modified System Contract, M931		10251	3/1/6	276	32102	126500	254	ļ					
2. SHELL BODY		4134	38663	107	13314	131560	70	89/4	/8052	115	11332		117
3. FIN ASSEMBLY M34		5	3	2			2	3138		20 6	3966	100383	τ. Σ
4. PROP CHARGE M233								4250		13	5366	395740	4
6. FUZE TRNG M781								2150	81174	5 28	2714	100383	27
								2	r - - -	†	0767	2000	9
SubTotal AMMO Hardware		14385			45416			29376			27.47.4		
											-		
Production Support Costs													
Production Engineering		1073			1073			777			786		
Acceptance Testing		315			386			148			227		
Interim Transportation		4			143			195			305		
OWL											489		
SubTotal Brod Suprost		4674	· · ·				izim	1					
		5			9947			- C4			7232		
COST - Nonrecurring		-											
1. First Article 2. Production Varification Test		2185			000		<u></u>	į					
3. Calibration Lot					1330			877					
												-	
SubTotal COST-Nonrecurring		2185			3025			877					
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	-												
									•			-	
TOTAL		18244		707	20007		5	24404		- 0	6		
	1	2	1	1 22	10000	1	407	31/04	1	404	39703		411

Exhibit P-5a. Buda	5a Budget Procurement History and Planning	History a	and Planning					Date:	Cohmissy 1008	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	em Type:		2-1 Line Item	P-1 Line Item Nomenclature	- Jej		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	T
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTG MO	RTAR 120MA	CTG MORTAR 120MM FULL RANGE PRACTICE M9 (E25507)	RACTICE	M9 (E255((20
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΥTΩ	Unit Cost	Specs [Avail R	Date RFF Revsn [RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	_		
1. Modified System Contract, M931 FY 96 FY 97	Pocal Industries, Moscow, PA Pocal Industries, Moscow, PA	SS/FP OPT	TACOM	Mar-97 Mar-97	Oct-98 Jan-99	37176 126500	276 254	Yes Yes		
1a. LAP M931 FY 98 FY 99	Unknown Unknown	C/FP OPT	TACOM TACOM	May-98 Jan-99	Jan-00 Jul-00	78052 96522	115	Yes		
2. SHELL BODY FY 96 FY 97 FY 98 FY 99	Chamberlain Mfg., Scranton, PA Chamberlain Mfg., Scranton, PA Chamberlain Mfg., Scranton, PA Chamberlain Mfg., Scranton, PA	SS/FP OPT OPT OPT	TACOM TACOM TACOM TACOM	Aug-96 Mar-97 Jan-98 Jan-99	Jun-97 Jan-98 Oct-98 Oct-99	38663 131560 81174 100383	107 101 109 115	kes Kes Kes Kes	· · · · · · · · · · · · · · · · · · ·	
3. FIN ASSEMBLY M34 FY 98 FY 99	Valentec Systems, Inc., Mt. Arlington, NJ Valentec Systems, Inc., Mt. Arlington, NJ	OPT OPT	TACOM TACOM	Jan-98 Jan-99	May-98 May-99	81174	39	≺es ≺es		
4. PROP CHARGE M233 FY 98 FY 99	Unknown Unknown	C/FP OPT	TACOM TACOM	Mar-98 Jan-99	May-99 Sep-99	320013 395740	£1 4	×es ×es		
5. IGNITION CTG M1020 FY 98 FY 99	Unknown Unknown	OPT OPT	TACOM	Mar-98 Jan-99	Feb-99 Dec-99	81174	26	≺es ≺es		
REMARKS: FY96/97 initial production is a combined buy sole source to the development contractor. The M931 LAP will be combined with the M934A1 LAP effort. The LAP procurement will be limited to North American competition.	ned buy sole source to the develop the M934A1 LAP effort. to North American competition.	ment contr	actor.						_	

Exhibit P	Exhibit P-5a, Budget Procurement History and Planning	History	and Planning					Calc.	Fahruary 1998	ď
Appropriation / Budget Activity/Serial No:		Weapon System Type:	tem Type:		P-1 Line Iten	P-1 Line Item Nomenclature:	re:		ool 6 mm	
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTG MC	RTAR 120MI	CTG MORTAR 120MM FULL RANGE PRACTICE M9 (E25507)	PRACTICE	: M9 (E25	(202
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost	Specs Avail Now?	Date RF Revsn Avail	RFP Issue Date
6. FUZE TRNG M781 FY 99	Unknown	C/FP OPT	TACOM TACOM	May-98 Jan-99	Feb-99 Oct-99	81174	25 25			
REMARKS:										

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2. SHELL BODY		\sqcup							Н					Н				H	Н							
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Docal Industries N	Ç	+	45	40	ļ	_	REC	REORDER	十	+	9	T		9	╀	15	T		2	S	Sequence of production is arranged	ice of	produ	ction is	s arran	ged
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3 Chamberlain Mfg., Scranton, PA	10	H	16	20			REC	REORDER	H	\dashv					\dashv		1			。 C	over. Ouantities in thousands		the state of the s	apude		
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2. SHELL BODY													_	L		H	H	L				Г	 	\vdash	H	L	Г
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×ω		PROD	PRODUCTION RA	TES	2		MFR Number				ADMIN Prior 1 Oct	ADMIN LEAD TIME I 1 Oct. After 1	EAD Af	D TIME After 1 Oct.	ct.	N After	MFR After 1 Oct.	¥	TOTAL After 1 Oct	L Oct.	REN	REMARKS The same li	S line p	roduce	s she	REMARKS The same line produces shell bodies	ø
R NAME / LOCATION	MIN		1-8-5	MAX	÷ □	L	Z	INITIAL		┝	ຶ			თ		ľ	18	L	27	Γ	for al	1120	for alf 120mm mortar rounds.	ortar ro	unds.		_
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								Date:				
	Ü	Exhibit P-40,		em Justific	Budget Item Justification Sheet	3				February 1998		
Appropriation / Budget Activity/Serial No:	Serial No:					P-1 Item Nomenclature.	sture.					
PRC	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MUNITION / 1 / A	mmunition				Ö	G MORTAR 120M	CTG MORTAR 120MM HE M934A1 W/MO FUZE (E25501)	MO FUZE (E2550	1)	
Program Elements for Code B Items:	tems:			Code:	Other Related Program Elements:	gram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty					43	33	24					100
Gross Cost	0.0	0.0	0.0	0.0	38.0	29.1	22.2	0.0	0.0	0:0	0.0	89.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	38.0	29.1	22.2	0.0	0.0	0.0	0.0	89.3
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	38.0	29.1	22.2	0.0	0.0	0.0	0.0	89.3
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

explosive round it replaces. The M934A1 version incorporates the more reliable and countermeasure resistant M734A1 Multi-option fuze. This item is projectile body with a TNT or composition B explosive fill. The round uses the M734A1 multi-option fuze proximity setting to burst at a height over the The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and target which is optimized for lethality. The round expands the total range 1000 meters and has a blast effect 1.5 times greater than the 4.2-in high code A: it has been approved for service use.

JUSTIFICATION:

This procurement is part of the total package fielding effort for the 120mm mortar system. Procurement of the M934A1 supports building a war reserve inventory, which will replace the M934 as the preferred 120mm ammunition.

Type Classification Date: NDI - MAR90 limited rate production - urgent(LPU); Enhanced Ammunition - M934 standard (STD) MAY92; M934A1 standard (STD) JUN96. Acquisition Manager: PM MORTARS

			ander Acily	Appropriation/ Budget Activity/Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature:	e i		Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMIN Ammunition	MUNITION / 1 /		CTG M.	CTG MORTAR 120MM HE M934A1 W//MO F1/2F (F25501)	HE M934A1 5501)				Febru	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qfy	UnitCost
AMMINITION LABORADE	\downarrow	\$000	Each	ક્ક	\$000	Each	es.	000\$	Each	S	000\$	Each	s
1. LAP, M934A1 2. SHELL BODY 3. FIN ASSEMBLY M31 4. IGNITION CTG M4020				·				7669 5447 1764			6013 4067 1369		183 119 40
5. PROP CHARGE M234 6. FUZE M734A1 7. PA153 CONTAINER					•			1180 2333 13917 481		312 312 11			27 13 275 11
8. PA154 CONTAINER SubTotal AMMO Hardware								792 33583	22279	36	617 2452 7	17042	96
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation								1295 304 800 324			1279 300 787 319		
SubTotal Prod. Support								2723			2685		
COST - Nonrecurring First Article Test Calibration Lot								1730			1875		
SubTotal COST-Nonrecurring								1730			1875		٠
TOTAL								38036		888	29087		843

Exhibit P-5a, Budg	ia, Budget Procurement History and Planning	listory a	and Planning					Date:	February 1998	866
Appropriation / Budget Activity/Serial No: DPOCI IDEMENT OF AMMI INITION / 1 / Ammunition		Weapon System Type:	em Type:		2-1 Line Item	P-1 Line Item Nomenclature:	Item Nomenclature: CTG MOBTAR 120MM HE M934 WIMO EI IZE (E26501)	WWO ELL	75 (5255	٤
				1					77	(1)
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	ΔTΥ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	
1. LAP, M934A1 FY 98 FY 99	Unknown Unknown	C/FP OPT	TACOM TACOM	May-98 Mar-99	Feb-99 Sep-00	42844	179	Yes		
2. SHELL BODY FY 98 FY 99	Chamberlain Mfg., Scranton, PA Chamberlain Mfg., Scranton, PA	TGO TGO	TACOM TACOM	Jan-98 Jan-99	Jan-99 Jan-00	44558 34084	122	≺es ≺es		
3. FIN ASSEMBLY M31 FY 98 FY 99	Valentec Systems Inc., Mt. Arlington, NJ Valentec Systems Inc., Mt. Arlington, NJ	OPT OPT	TACOM	Jan-98 Jan-99	May-98 May-99	44558 34084	04 04	Yes		
4. IGNITION CTG M1020 FY 98 FY 99	Unknown Unknown	OPT	TACOM TACOM	Mar-98 Jan-99	Feb-99 Dec-99	44558 34084	26 27	Yes Yes		Jul-97 Jul-97
5. PROP CHARGE M234 FY 98 FY 99	Unknown Unknown	C/FP OPT	TACOM TACOM	Mar-98 Jan-99	Dec-98 Dec-99	175660 134369	13	Yes		
6. FUZE M734A1 FY 98 FY 99	Unknown Unknown	C/FP OPT	TACOM TACOM	May-98 Jan-99	Jun-99 Dec-99	44558 34084	312 275	Yes Yes		Dec-97 Dec-97
7. PA153 CONTAIINER FY 98 FY 99	Omega Container Inc., Arcadia, LA Unknown	OPT C/FP	TACOM TACOM	Jan-98 Mar-99	Jul-98 Oct-99	44558 34084	11	Yes Yes		·

120mm components (M31 fin, M1020 ignition cartridge, M734A1 fuze, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds. The LAP effort and M734A1 fuze procurements will be limited to North American competition. The M934A1 LAP effort will be combined with the M931 LAP on one contract. REMARKS:

Exhibit P-	Exhibit P-5a, Budget Procurement History and Planning	History	and Planning					Cate:	February 1998	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	tem Type:		2.1 Line Item	P-1 Line Item Nomenclature			2001	T
PROCUREMENT OF AMMUNITION / 1 / Ammunition				•	CTG	MORTAR 120	CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)	V/MO FUZE	: (E25501)	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost	Specs Avail F Now?	Date RFP Revsn D Avail	RFP Issue Date
8. РА154 CONTAINER FY 99	Brockway STD, Atlanta, GA Unknown	OPT C/FP	TACOM	Jan-98 Mar-99	Sep-99	17042	ဖွင့် ဗိ			
REMARKS: 120mm components (M31 fin, M1020 ignition cartridge, M734A1 fuze, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.	ignition cartridge, M734A1 fuze, P	A153 conta	ainer and PA154 container)	are procur	ed on sam	e contract	s as for other	r 120mm	mortar	
										1

EV 98 / 99 BLIDGET PRODUCTION SCHEDIII	ICTIC	V	HEDI	ц		<u>4</u>	P-1 Item Nomenclature: CTG MORTAR 12	Nomenclature: CTG MORTAR 120MM HE M934A1 W/MO FUZE (E25501)	ature TAR): 120MN	A HE	4934A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10 FU	7E (E	25501	_		<u> </u>	Date:			F.	February 1998	866		
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	Ú	xhibit P-40	, Budget II	Exhibit P-40, Budget Item Justification Sheet	cation She	et		Date:		February 1998		
Appropriation / Budget Activity/Serial No:	//Serial No:					P-1 Item Nomenclature:	ature:					
g.	PROCUREMENT OF AMMUNITION / 1 / Ammur	AMUNITION / 1 / A	umunition				CT	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)	M ILLUM XM930 V	VMTSQ FZ (E255	503)	
Program Elements for Code B Items:	ltems:			Code:	Other Related Program Elements:	ogram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty				13	2							15
Gross Cost	0.0	0.0	0.0	26.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	28.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	26.0	2.9	0.0	0.0	0.0	0.0	0.0	000	28.9
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	26.0	2.9	0.0	0.0	0.0	0.0	0.0	0:0	28.9
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

The round is used to illuminate target areas during night operations. It consists of a two-piece body filled with illuminating flare, fuze, and tail assembly. It bursts over a target, producing bright illumination which is more intense and effective than the 4.2-in illumination round it replaces. This budget line also funds the XM983 Infrared Illumination Round. The round is range matched to the 120mm high explosive (HE) and smoke cartridges. This item is code B: It has not been type classified and has not been approved for service use.

JUSTIFICATION:

This procurement is part of the total package fielding effort for the 120mm mortar system. The FY97 procurement provides a calibration lot and builds war reserve inventory in accordance with the Army's procurement goals.

Type Classificattion Date: MAR 98 standard (STD)

Ammunition	TotalCost \$000		W/MTSQ FZ (E25503)			Febru	February 1998
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TOTAL 25943	25943		2933				

Exhibit P.	Exhibit P-5a Budget Procurement History and Dlanning	History	and Dlanning					Date:		
Appropriation (Budget Activity (Social No.		locol y	and I railling					Fe	February 1998	. 86
Appropriation / Budget Activity/Settal No.		Weapon System (ype:	item ! ype:		P-1 Line Item	P-1 Line Item Nomenclature.	.e:			
PROCUREMENT OF AMMUNITION / 1 / Ammunition		i			CTG M	ORTAR 120N	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)	D W/MTSQ	FZ (E25	503)
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	ΩTY	Unit Cost	Specs	Date	RFP Issue
Fiscal Years		and Type			Delivery	Each	69		Avail	o age
1. XM930/983, LAP						İ		4-	t	
FY 97	Pine Bluff Arsenal, Pine Bluff, AR	SS/CR	TACOM	Apr-98	Jan-00	13222	329			
FY 98	Pine Bluff Arsenal, Pine Bluff, AR	SS/CR	TACOM	Apr-98	Apr-00	1962	333			
2. SHELL BODY							}			
FY 97	Chamberlain Mfg., Scranton, PA	OPT	TACOM	Apr-98	Apr-99	13751	263			
FY 98	Chamberlain Mfg., Scranton, PA	OPT	TACOM	Apr-98	Jun-99	2040	226	-		
3. FIN ASSEMBLY M31				·		: 	1			•
FY 97	Valentec Systems Inc., Mt. Arlington, NJ	OPT	TACOM	Aug-97	Jan-98	13751	39		-	
FY 98	Valentec Systems Inc., Mt. Arlington, NJ	OPT		Jan-98		2040	8 4			
4. CANNISTER ASSY					}	2	?			
FY 97	Crane AAA, Crane, IN	SS/CR	TACOM	Apr-98	190-uel	6875	347			
FY 98	Crane AAA, Crane, IN	SS/CR	TACOM	Apr-98	Mar-99	1020	25.4			
5. IR CANNISTER ASSY				}	3	3	2			
FY 97	Crane AAA, Crane, IN	SS/CR	TACOM	Apr-98	Jan-99	6875	305			
FY 98	Crane AAA, Crane, IN	SS/CR	TACOM		Mar-99	1020	312			
6. IGN CTG M1020					i		<u>.</u>			
FY 97	Unknown	C/FP	TACOM	Feb-98	Jan-99	13751	26			1111.07
FY 98	Unknown	OPT	TACOM		Feb-99	2040	96			5
7. PROP CHG M234					1	2	3			_
FY 97	Valentec Systems Inc., Mt. Arlington, NJ	C/FP	TACOM	Sep-97	Sep-98	55004	13			·
FY 98	Unknown	C/FP	TACOM		Jan-99	8044	13			
8. FUZE M776							?	_		
FY 97	Diehi GMBH, Schramberg, GER	SS/FP	TACOM	Aug-97	Jun-98	13751	127			
FY 98	Diehl GMBH, Schramberg, GER	OPT		Apr-98	Feb-99	2040	5 5			
9. PA153 CONTAINER					2	2	3			
FY 97	Omega Container Inc., Arcadia, LA	OPT	TACOM	Sep-97	Apr-98	13751	1			
FY 98	Omega Container Inc., Arcadia, LA	OPT	TACOM		Jul-98	2040	=			
										_
REMARKS: Pine Bluff Arsenal and Crane Army Ammunition Activity are government owned - government operated facilities.	Ammunition Activity are government	owned - a	overnment operated facilitie	s. These	activities a	re issued	These activities are issued work orders, not contracts	not con	rarte	

Pine Bluff Arsenal and Crane Army Ammunition Activity are government owned - government operated facilities. These activities are issued work orders, not contracts. 120mm mortar components (Shell bodies, M31 fin, M234 prop charge, M1020 ignition cartridge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds. Due to late TC of M930/M983, FY97 & FY98 programs will be executed as a single buy.

									Date:		
	Exhibit P-6	Exhibit P-5a, Budget Procurement History and Planning	listory a	ind Planning					Fel	February 1998	
Appropriation / Budget Activity/Serial No:	tivity/Serial No:		Weapon System Type:	əm Type:		P-1 Line Item Nomenclature:	Nomenclatu	īe:			
PROCUREMENT O.	PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTG M	ORTAR 120N	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)	O W/MTSQ	FZ (E25503	<u>.</u>
WBS Cost Elements:		Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	oTY fact	Unit Cost	Specs Avail	Date RFF Revsn C	RFP Issue Date
10. PA154 CONTAINER FY 98	E R	Brockway STD, Atlanta, GA	TAO	TACOM	Jul-97 Jan-98	% Nov-97	1020	8 9 8			
•	Pine Bluff Arsenal and Crane Army A 120mm mortar components (Shell bo other 120mm mortar rounds.	Pine Bluff Arsenal and Crane Army Ammunition Activity are government operated facilities. These activities are issued work orders, not contracts. 120mm mortar components (Shell bodies, M31 fin, M234 prop charge, M1020 ignition cartridge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.	t owned - g M1020 ignit	lovernment operated faciliti	es. Inese	activities A154 cont	are issuedainer) are	J work orders	s, not cor	ntracts.	s for

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	Щ	Exhibit P-40,		em Justifie	Budget Item Justification Sheet	ot.				February 1998		
Appropriation / Budget Activity/Serial No.	/Serial No:					P-1 Item Nomenclature:	ature:					
PRC	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / A	vmmunition				Ğ	3 MORTAR 120M	CTG MORTAR 120MM SMOKE M929 W/MO FUZE (E25504)	VMO FUZE (E255	504)	
Program Elements for Code B Items:	ltems:			Code:	Other Related Program Elements:	gram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qtv			25	27			21	23	23	19		170
Gross Cost	0.0	0.0	65.8	34.9	0.0	0.0	25.4	25.9	26.6	23.7	0.0	202.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	65.8	34.9	0.0	0.0	25.4	25.9	26.6	23.7	0:0	202.4
Initial Spares												
Total Proc Cost	0.0	0.0	65.8	34.9	0.0	0.0	25.4	25.9	26.6	23.7	0:0	202.4
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

The round is used to provide smoke, with some incendiary effect, for various screening uses. It consists of a body with smoke composition filler, fuze, round is range matched to the 120mm high explosive (HE) and illuminating cartridges. This cartridge uses the advanced M734A1 Multi-option fuze, and tail assembly. It bursts over or on a target, producing dense smoke which is 100 percent greater than the 4.2-in smoke round it replaces. The which has greatly improved height-burst and ECM capabilities. This item is code A: it has been type classified and approved for service use.

JUSTIFICATION:

FY97 procurement builds war reserve inventory and supports annual peacetime training requirements in acccordance with the Army's procurement This procurement is part of the total package fielding effort for the 120mm mortar system.

Enhanced Ammunition - XM929, limited rate production (LRP) MAY 92; M929, standard (STD) JUN 96. Type Classification Date: NDI - MAR 90 limited procurement - urgent(LPU); Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis	∢ -	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /	udget Activit IT OF AMMU	y/Serial No: JNITION / 1 /		P-1 Line Ite CTG MOF	P-1 Line Item Nomenciature: CTG MORTAR 120MM SMOKE M929	e: MOKE M929		Weapon System Type:	m Type:	Date:	February 1998
Cost Alianysis	_	A	Ammunition			>	W/MO FUZE (E25504)	5504)				-	014a1y 1330
	_	ı	FY 96		•	FY 97			FY 98			FY 99	
Cost Elements	8	TotalCost	ĝ	UnitCost	TotalCost	gty.	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost
AMMINITION HARDWARE	t	0000	Lacu	A	0000	Each	A	\$000	Each	€	000 \$	Each	ઝ
1. LAP, M929		17623	56625	311	8745		318					···	
2. SHELL BODY		10159	58890	173	5436	28599	190						
39 ION OTO M400		1492	28890	52	7.40		8						
4. FIN ASSEMBLY M31		2309	58890	39	1107	28599	9 g						
5. PROP CHG M230		2951	232163	13									
08. FKOF CHG M234 6 FI7F M73461	-		00004	00,	1463	112746	13						
7. PA153 CONTAINER			28890 58890	5 -	308	28599	145						
8. PA154 CONTAINER			29445	35	540	14299	38						
SubTotal AMMO Hardware		507 60229			262 28362								
Production Support Costs	_												
Production Engineering		1225			2525								
Acceptance Testing	-	209	••••	•	474 652								
Interim Transportation		304			360			٠					
SubTotal Prod. Support		2385		 ,	4011		·						
COST - Nonrecurring													
1. M734A1 Materiel Change 2. PVT		2102			2563								
		}											
SubTotal COST-Nonrecurring		3198			2563								
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TOTAL		64040		7,40	00076		9						
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	Sa Budget Brocurament History and Dlanning	Hieton	and Diamina					Date:	;	
	oa, Daaget Flocalement	illstory (and riailling					Fe	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type:	em Type.		2-1 Line Item	P-1 Line Item Nomenclature:	re:			
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTG M(ORTAR 120N	CTG MORTAR 120MM SMOKE M929 W/MO FUZE (E25504)	9 W/MO F	UZE (E25	504)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
1. LAP, M929 FY 96 FY 97	Pine Bluff Arsenal Pine Bluff, AR Pine Bluff Arsenal Pine Bluff, AR	1	TACOM	Aug-96 Mar-97	Sep-98 Mar-99	56625 27499	311 318		3	
2. SHELL BODY FY 96 FY 97	Chamberlain Mfg. Scranton, PA Chamberlain Mfg. Scranton, PA	SS/FP OPT	TACOM	Aug-96 Mar-97	Jun-97 Jan-98	58890 28599	173	YES		
3. IGN CTG M981 FY 96	General Dynamics Milan, TN	C/FP	TACOM	Sep-96	Aug-97	58890	25	YES		
3a. IGN CTG M1020 FY 97	Unknown	C/FP	TACOM	Feb-98	Jan-99	28599	26	YES		Jul-97
4. FIN ASSEMBLY M31 FY 96 FY 97	Valentec Systems, Inc. Mt. Arlington, NJ Valentec Systems, Inc. Mt. Arlington, NJ	C/FP OPT	TACOM TACOM	Sep-96 Apr-97	Jul-97 Sep-97	58890 28599	96 98	YES		
5. PROP CHG M230 FY 96	Valentec Systems, Inc. Mt. Arlington, NJ	C/FP	TACOM	Sep-97	Jun-98	232163	13	YES		
5a. PROP CHG M234 FY 97	Valentec Systems, Inc. Mt. Arlington, NJ	C/FP	ТАСОМ	Sep-97	Dec-98	112746	13	YES		
1737	KDI Cincinnati,OH KDI Cincinnati,OH KDI Cincinnati,OH	SS/CPIF TACOM SS/FP TACOM OPT TACOM	TACOM TACOM TACOM	Apr-96 Sep-96 Mar-97	Feb-98 May-98 Oct-98	9050 49840 28599		447 YES 324 YES 341 YES		•
REMARKS: 120mm mortar components (Shell hodies M1020		1 fin M234	ignition cartridge. M31 fp. M234 prop. charge. PA153 container and PA154 container) are procured on same contracts as for	iner and P,	4154 cont	hainer) are	procured on	same c	ntracts	as for

120mm mortar components (Shell bodies, M1020 ignition cartridge, M31 fin, M234 prop charge, PA153 container and PA154 container) are procured on same contracts as for other 120mm mortar rounds.

Exhibit P-	Exhibit P-5a, Budget Procurement History and Planning	History	and Planning					Date:		
Appropriation / Budget Activity/Serial No.		Woodon Surfam Tune						ı,	February 1998	98
PROCUREMENT OF AMMUNITION / 1 / Ammunition		vveapon Syst	tem Type:		P-1 Line Item	P-1 Line Item Nomenclature:	re:			
		Contract				שואין אין אין	OLG MONTH STUMING SINGLE (1925) WIND FUZE (E2304)	DIMINA 6	0ZE (EZS	504)
West Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	First	ΔT	Unit Cost	Specs	Revsn	RrP Issue
Fiscal Years		and Type			Delivery	Each	\$		Avail	3
7. PA153 CONTAINER										
FY 96 FY 97	Omega Container Inc. Arcadia, LA Omega Container Inc. Arcadia, LA	C/FP OPT	TACOM	Sep-96 Sep-97	Dec-97 Apr-98	58890				
8. PA154 CONTAINER				-	-					
FY 96 FY 97	Brockway STD Atlanta, GA	C/FP	TACOM	Sep-96	Mar-97	29445	35			
	Clockway STD Atlanta, GA			70-101 NG-101	/e-dac	8674	S S	·····		
								•		
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				*						
REMARKS: 120mm mortar components (Shell bodies, M1020) other 120mm mortar rounds	odies, M1020 ignition cartridge, M31	fin, M234	ignition cartridge, M31 fin, M234 prop charge, PA153 container and PA154 container) are procured on same contracts as for	ner and P⊅	.154 conta	ainer) are p	procured on s	ame col	itracts	as for

Exhibit P-21, Production Schedule

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCTIC	os NC	SHED SHED	ULE			<u>:</u>	P-1 Item Nomenclature: CTG MORTAR 120	n Nomenciature: CTG MORTAR 120MM SMOKE M929 W/MO FUZE (E25504)	Clatur TAR 1	e: 20MM	SMO	Ä ≅	929 W	/MO F	UZE	(E255((4)			Date:	*		_	February 1998	ary 19	98		
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	Ä	Exhibit P-40,	Budget It	P-40, Budget Item Justification Sheet	cation Sh	eet		Date:		February 1998		
Appropriation / Budget Activity/Serial No:	ty/Serial No:					P-1 Item Nomenclature:	lature:					
PROC	PROCUREMENT OF AMMUNITI	MUNITION / 1 / /	ON / 1 / Ammunition				Ü	OTG 120MM APF	CTG 120MM APFSDS-T M829A2/M829E3 (E78001)	A829E3 (E78001	_	
Program Elements for Code B Items:	B items:			Code:	Other Related Program Elements:	ogram Elements:						
				Α .								-
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2003 To Complete Total Prog	Total Prog
Proc Qty	33	22	23	28	20	2	-	-	4	9		144
Gross Cost	133.3	81.9	79.8	103.5	71.3	9.7	5.3	19.1	39.9	70.2	0.0	614.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	133.3	81.9	79.8	103.5	71.3	9.7	5.3	19.1	39.9	70.2	0.0	614.0
Initial Spares												
Total Proc Cost	133.3	81.9	79.8	103.5	71.3	9.7	5.3	19.1	39.9	70.2	0.0	614.0
Flyaway U/C												
Wpn Sys Proc U/C	4039	3723	3519	3724	3825	6445	11652	9322	8231	7582		
DESCRIPTION:												

The 120MM M829A2 Armor Piercing, Fin-Stabilized, Discarding Sabot with Tracer (APFSDS-T), cartridge is designed specifically as a anti-M829A1 APFSDS-T, has been technologically improved to provide significantly greater armor penetration capability than the older round. This flight to allow the discarding of the sabot from the super depleted uranium (SDU) penetrator. A synthetic rubber seal is molded to the base of consists of a combustible cartridge case mounted on a steel stub base and filled with kerfed propellant. The propellant is ignited by a M129 electric primer. The projectile incorporated a segmented graphite reinforced plastic sabot held in place by a plastic band which separates in armor kinetic energy round. This round is fired from the M256 120MM cannon mounted on the M1A1 Abrams tank. The propellant system the sabot assembly to prevent the forward escape of hot propellant gases. The M829A2, although using many similar components of the item is code A, approved for service use. This item has not been transitioned to SMCA and will be procured as actual cost in FY99.

JUSTIFICATION

source multi-year production contract. Production of the M829A2 will provide a "leap-ahead" in tank ammunition technology to enable the U.S. tank fleet to defeat current and postulated threat armor well into the next century. Introduction of this technological advance complies with the Procurement builds war reserve inventory in accordance with the Army's procurement goal. The acquisition strategy for FY95-FY98 was sole round encompasses evolutionary advances in technology and represents the most effective tank round in production. The round will replace objective of Armament Enhancement Initiatives fielding munition deterrent prior to the introduction of a new opposing armored threat. This the currently fielded M829A1 APFSDS-T as production levels rise.

Exhibit P-5, Weapon Ammo Cost Analysis	Appropriation PROCURE	on/ Budget Activ MENT OF AMM / Ammunition	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Ite CT(M829	P-1 Line Item Nomenclature: CTG 120MM APFSDS-T M829A2/M829E3 (E78001)	rre: SDS-T E78001)		Weapon System Type:	m Type:	Date. Febi	February 1998
Ammunition		FY 96			FY 97			FY 98			FY 99	
Cost Elements CD	TotalCost	-	UnitCost	TotalCost	۵ty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Ederridge I wollenstrate	\$Million	ι Each	\$000	\$Million	Each	\$000	\$Million	Each	\$000	\$Million	Each	000\$
AMMUNITION HARDWARE Complete Round	76328	28 22676	3366	93618	27780	3370	67957	20165	3370	6269	1510	4350
											-	
SubTotal AMMO Hardware	76328	82		93618			67957			6999		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing	191	1980 725 775		2150 910 1024			1829 725 775			1668 725 770		
SubTotal Prod. Support	3480			4084			3329			3163		
Nonrecurring Cost			***					*****			****	
1. Expired year bill				5786				· · · · · · · · · · · · · · · · · · ·				
				9829								
							-					
												40.00
TOTAL	79808	80	3519	103488		3724	71286		3825	9732		6445

Exhibit D.53	5a Budget Drocurement History and Diaming	· Lietom	and Diaming					Cate:		
		riistoi y	allu riallillig					Fe	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type:	tem Type:		P-1 Line Ite	P-1 Line Item Nomenclature:	ture:			
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTC	3 120MM AP	CTG 120MM APFSDS-T M829A2/M829E3 (E78001)	.2/M829E	3 (E78001	_
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΩTY	Unit Cost	Specs Avail	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
1. COMPLETE ROUND										
FY96	Olin Ordnance Corp	SSM-4/F ARDEC	ARDEC	Mar-96	Jan-97	22676	3366	yes	2	
FY97	Primex Technologies	SSM-4/F ARDEC	ARDEC	Feb-97	Dec-97	23664	3370	yes	2	
FY97	St. Petersburg, FL Primex Technologies	SSM-4/F ARDEC	ARDEC	Jan-98	Dec-98	4116	3370	yes	2	
FY98	St. Petersburg, FL Primex Technologies	SSM-4/F ARDEC	ARDEC	Jan-98	Feb-99	13382	3370	yes	2	
	St. Petersburg, FL Primex Technologies	SS-Ontio ARDEC	ARDEC	90,08	PO-YON	6783	3370	987		
3	St. Petersburg, FL		9	3		3			<u> </u>	
FY99	St. Petersburg, FL	SS-Optio ARDEC	ARDEC	Jan-99	Apr-00	1510	4350	yes	2	
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REMARKS: Primex Technologies spun-off from Olin Ordnance Corp in Jan 97.	n Olin Ordnance Corp in Jan 97.									

EY 1998 / FY 1999 BUDGET PRODUCTIO	SODIC.		N SCHEDULE	EDUL	υ.	P-1 lfe	P-1 Item Nomenclature: CTG 120MM APESDS-T M829A2/M829E3 (F78001)	ature: IM APF	SDS	. M829	A2/MB	29E3	F7800	£			Date:	.		r.	February 1998	866		
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Dale.		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 ftem Nomenclature;	ıre:					
Kd.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					CTG 120Mh	CTG 120MM HEAT-MP-T M830A1 (E78007)	41 (E78007)		
Program Elements for Code B Items:	ms.			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	52	13		6	3							77
Gross Cost	186.6	43.8	0.0	30.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0	269.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	186.6	43.8	0.0	30.9	7.8	0.0	0.0	0.0	0.0	0.0	0:0	269.1
Initial Spares												
Total Proc Cost	186.6	43.8	0.0	30.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0	269.1
Flyaway U/C												
Wpn Sys Proc U/C	3588	3369	,	3556	3008.0							
DESCRIPTION:												

accomplished through the ballistic environment of firing, set back and deceleration. This item is code A, approved for service use. This item has not transitioned to aspects of tanks, and dismounted anti-tank and automatic weapons teams. The fixed round utilizes a combustible cartridge case affixed to a steel stub and loaded mounted on the M1A1 Abrams tank. Appropriate targets include lightly armored vehicles with reactive armor, helicopters, buildings and bunkers, the side and rear element is armed during launch and initiated by an impact switch or proximity sensor, depending upon the operational mode selected by the tank crew. Arming is with granular propellant. The fin-stabilized, high chrome alloy steel projectile body is press-loaded with explosive, a precision copper liner and booster. The base The 120MM M830A1 Multi-Purpose (MP) cartridge is effective against light armor, air defense and materiel. This round is fired from the M256 120MM cannon SMCA and will be procured as actual cost in FY99.

JUSTIFICATION:

Procurement builds war reserve inventory in accordance with the Army's procurement goal. The production and fielding of the M830A1 provides increased accuracy when compared to the currently fielded M830 High Explosive Anti-Tank Multi-Purpose with Tracer (HEAT-MP-T) cartridge, due to reduced time of flight. For the first time ever, the M830A1 provides the individual tank crew with the self-defense capability to engage and defeat attacking helicopter platforms. The M830A1 replaces the currently fielded M830 round to provide significantly enhanced capability to the 120MM gun tank fleet.

Acquisition Manager: Project Manager, Tank Main Armaments (PM-TMAS),

Exhibit P-5, Weapon	٧	Appropriation/ Budget Activity/Serial No:	iget Activity/	Serial No:		-1 Line Item	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMI	UNITION / 1 /		CTG 120MI	CTG 120MM HEAT-MP-T M830A1 (E78007)	330A1 (E78007)				Febr	February 1998
	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	S	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost
AMMIINITION HABDWABE	+	\$Million.	Each	\$000	\$Million	Each	\$000	\$Million	Each	\$000	\$Million	Each	\$000
Complete Round					26525	8700	3049	9629	2600	2537			
						-							
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SubTotal AMMO Hardware					26525			6596					
Production Support Costs Production Engineering					2858			C C U					
Quality Assurance Acceptance Testing			· /		910			325 325				**	
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SubTotal Prod. Support					4418			1225					-
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TOTAL					30943		3556	7821		3008	-		
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Procurement	and Planning
Exhibit P-5A,	History

								Date:		
Exhibit F	Exhibit P-5a, Budget Procurement History and Planning	History ar	nd Planning					ii.	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG 120M	CTG 120MM HEAT-MP-T M830A1 (E78007)	30A1 (E78	(200	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Award Date Date of First	QΤΥ	Unit Cast	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now	Avail	
1. COMPLETE ROUND FY97	Alliant Techsystems	SS/FP	АМССОМ	Sep-97	Aug-98	8700	3049	yes	2	
F/98	Minneapolis, MN Aliant Techsystems	SS/Option AMCCOM	AMCCOM	66- 66-	66-uel	2600	2537			
}	Minneapolis, MN								<u> </u>	
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	F-41,									
REMARKS:										

	ĒX	Exhibit P-40,	Budget It	P-40, Budget Item Justification Sheet	cation Sh	eet				February 1998		ü
Appropriation / Budget Activity/Serial No:	ty/Serial No:					P-1 Item Nomenclature:	lature:					
PROC	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / /	Ammunition					CTG TANK 120M	CTG TANK 120MM TP-T M831/M831A1 (E73300)	331A1 (E73300)		
Program Elements for Code B Items:	B Items:			Code:	Other Related Program Elements:	ogram Elements:						
•				∢			,					
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete Total Prog	Total Prog
Proc Qtv	550	4	40	93	93	105	98	85	85	84		1263
Gross Cost	499.7	29.6	29.1	54.5	9'09	60.4	49.9	49.1	48.8	47.8	0.0	931.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	499.7	29.6	29.1	54.5	9.09	60.4	49.9	49.1	48.8	47.8	0.0	931.0
Initial Spares												
Total Proc Cost	499.7	29.6	29.1	54.5	9.09	60.4	49.9	49.1	48.8	47.8	0.0	931.0
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

The 120mm M831A1 Target Practice-Tracer (TP-T) is a target practice round that simulates the ballistics of the chemical energy service round composed of a steel spike aluminum body, ring, stabilizer, nylon obturator, and tracer. The stabilizer spins the round in flight. This item is (M830). This round is fired from the M256 120mm smooth bore cannon on the M1A1/M1A2 Abrams tank. The projectile is inert and is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

proficiency. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement This is a training unique item; not used in combat. Tank crews conduct live fire training with this round to meet and maintain gunnery goals. The acquisition strategy for FY 95 - FY 98 was a sole source. The FY 1999 - 2003 is a new multi-year program,

TYPE CLASSIFICATION DATE:

1993

Ammunition to Cost Elements Cost Elements Cost Elements Cost Elements Complete Round SubTotal AMMO Hardware SubTotal AMMO Hardware Complete Round SubTotal AMMO Hardware SubTotal Production Engineering Advantation Interim Transportation CAWCF Gain/Loss Surcharge SubTotal Prod. Support Support SubTotal Prod. Support Supp	Weapon	vity/Serial No:	<u>.</u>	2-1 Line Iter	P-1 Line Item Nomenclature:	Je:		Weapon System Type:	em Type:	Date:	
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TOTAL 29052 719.21	29052	719.21	54502		587.99	60635		654.69	60386	•	575.10

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	Exhibit P-5a,	Budget Procurement	History	and Planning					Fel	February 1998	98
Appropriation / Bu	Appropriation / Budget Activity/Serial No:		Weapon System Type:	em Type:		3-1 Line Iten	P-1 Line Item Nomenclature	ure:			
PROCUREME	PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTC	3 TANK 120	CTG TANK 120MM TP-T M831/M831A1 (E73300)	/M831A1	(E73300)	
WBS Cost Elements:	nts:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ατγ	Unit Cost	Specs Avail R	Date RI Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	\$		Avail	
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FY 96		Alliant Tech Sys, Inc	CM-2/FP IOC	၁၀	Jan-96	96-100	24695	#494.85	•		
FY 96		Corp.	CM-2/FP IOC	00	Jan-96 Nov-96	Nov-96	15700	#603.16			
FY 97		St. Petersburg, FL Alliant Tech Sys, Inc	CM-3/FP IOC		Nov-96	Oct-97	64562	#509.41	≺es		Oct-96
20		New Brighton, MN	701 a/c M	Ç	Nov. 06 Nov. 07	70 you	28130	#580 40	>		90
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FY 98		Alliant Tech Sys, Inc	CM-4/FP IOC	20	Dec-97	Oct-98	47698	#504.74	×es	<u> </u>	Oct-97
144		New Brighton, MN				;					
FY 98		Primex Tech, Inc	CM-4/FP IOC	20	Dec-97	Nov-98	44918	#596.11	≺es		Oct-97
FY 99		TBS	CM-5/FP IOC	20	Jan-99	Oct-99	105000	548.00	Yes		Oct-98
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REMARKS:	# FY 96 - FY 98, Actual Contract Price (Average of Basic and Options) Multi-Year Procurement FY 95 - FY 98 FY 99 is the 1st year of the FY 99 - FY 03 Multi-Year. TBS - To Be Selected	rice (Average of Basic and Optic :Y 98 . FY 03 Multi-Year.	ons)								

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	Ä	Exhibit P-40,	40, Budget Item Justification Sheet	em Justif	ication Sh	eet				February 1998		
Appropriation / Budget Activity/Serial No.	rity/Serial No:					P-1 Item Nomenclature:	slature:					
PRO	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 /,	Ammunition					CTG TANK 120	CTG TANK 120MM TPCSDS-T M865 (E73400)	A865 (E73400)		
Program Elements for Code B Items.	B Items:			Code:	Other Related Program Elements;	ogram Elements:						
	:	•		4								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1411	116	132	211	192	240	239	176	221	198		
Gross Cost	943.5	78.0	90.0	115.4	116.7	129.9	126.4	94.0	115.8	103.4	0.0	1913.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	943.5	78.0	0:06	115.4	116.7	129.9	126.4	94.0	115.8	103.4	0:0	1913.1
Initial Spares												
Total Proc Cost	943.5	78.0	90.0	115.4	116.7	129.9	126.4	94.0	115.8	103.4	0.0	1913.1
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

ballistics of the 120mm M829A2 Armor Piercing Fin-Stabilized Discarding Sabot with Tracer round. This round is fired from the M256 120mm cannon on the M1A1/M1A2 Abrams tank. This item is Code A, approved for service use. This item will be procured as actual cost beginning The 120mm M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is a target practice round that simulates the in FY 99.

JUSTIFICATION:

gunned tanks. Training with this round simulates the firing of the Army's most lethal armor-defeating kinetic energy round in support of Army readiness objectives. The acquisition strategy for FY 95 - FY 98 was a sole source. FY1999 is the first year of a five year multi-year program. accordance with the Army's procurement goals. The requested ammunition is required to support annual tank proficiency training for 120mm-This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon Ammo Cost Analysis	Approp PROC	oriation/ Bur UREMENT / Am	/ Budget Activ IENT OF AMM / Ammunition	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P.1 Line Ite CTG TAN	P-1 Line Item Nomenclature: CTG TANK 120MM TPCSDS-T M865	re: 3DS-T M865	>	Weapon System Type:		Date: Febru	February 1998
Δmminition		۲	FY 96			FY 97	(5,750)		FY 98			FY 99	
s		TotalCost	L.	UnitCost	TotalCost	o Šý	UnitCost	TotalCost	aty	UnitCost	TotalCost	λįσ	UnitCost
	\$		×1000	\$	\$000	×1000	\$	\$000	×1000	s	\$000	×1000	ક્ર
AMMUNITION HARDWARE Complete Round		69109	132	524.01	103420	211	490.92	100687	192	524.01	125520	240	523.00
SubTotal AMMO Hardware		69109			103420			100687			125520		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		2142 97 795 263 2936 12633			145 154 11437			10290 252 1158 725 3564			3573 821		
SubTotal Prod. Support		18866			11736			15989			4394		
COST - Nonrecurring HATR Safety Modification		2000			250								
SubTotal COST-Nonrecurring		2000			250								
TOTAL		89975		667.06	115406		546.63	116676		607.22	129914		541.31

		Budget Drougoment History, and Discour	Uicton	20,000					Date:		
			nistory	and Planning					Fel	February 1998	98
Appropriation	Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Ite	P-1 Line Item Nomenclature:	ure:			
PROCUF	PROCUREMENT OF AMMUNITION / 1 / Ammunition					ပ	TG TANK 12	CTG TANK 120MM TPCSDS-T M865 (E73400)	T M865 (E73400)	
WBS Cost Elements:	ements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ρŢ	Unit Cost	Specs Avail	Date RI Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	49	Now?	Avail	
Complete Round	Round										
FY 96		Alliant Tech Sys, Inc New Brighton MN	CM-2/FP IOC	20	Jan-96	Oct-96	81839	# 483.54			
FY 96		Olin Corp.	CM-2/FP IOC	20	Jan-96	Nov-96	50045	# 560.08			
FY 97		St. Fetersburg, FL Alliant Tech Sys, Inc New Brighton, MAN	CM-3/FP 10C	၁၄	Nov-96	Oct-97	143908	# 485.49	Yes		Oct-96
FY 97		Primex Tech, Inc	CM-3/FP IOC	20	Nov-96 Nov-97	Nov-97	66757	# 548.85	Yes		Oct-96
FY 98		Alliant Tech Sys, Inc	CM-4/FP IOC	20	Dec-97	Oct-98	114257	#488.20	Yes		Oct-97
FY 98		new brignion, ivin Primex Tech, Inc	CM-4/FP 10C	0	Dec-97 Nov-98	Nov-98	77890	#558.72	Yes		Oct-97
<u>7</u>		St. Petersburg, FL	07/10	Ç	1	6		i d			
6 - -		0	ON-9/1-P	2	Jan-99	96-100	240000	523.00	≺es		Oct-98
REMARKS:	# FY 96 and FY 98, Actual Contract Price (Average of Basic and Options) Multi-Year Procurement FY 95 - FY 98 FY 99 is the first year of the FY 99 - FY 03 Multi-Year. TBS - To Be Selected	t Price (Average of Basic and Ol 98 - FY 03 Multi-Year.	ptions)								
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		Exhibit P-4	Exhibit P-40, Budget Item		Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenciature:	ure:					
ă	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					CTG ARTY 7	CTG ARTY 75MM BLANK M337A1 (E15200)	41 (E15200)	-	
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
				¥								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	675		39		02	34	34	32	32			916
Gross Cost	12.3	0.0	1.5	0.0	2.9	1.6	1.6	1.5	1.5	0.0	0.0	22.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	12.3	0.0	1.5	0.0	2.9	1.6	1.6	1.5	1.5	0:0	0.0	22.9
Initial Spares										3	•	
Total Proc Cost	12.3	0.0	1.5	0.0	2.9	1.6	1.6	1.5	1.5	0.0	0.0	22.9
Fiyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

containing loosely packed black powder and a press-fitted percussion primer. A fiber wad is inserted over the black powder and a polystyrene closing cap is cemented in place with a polyster resin adhesive. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99. The 75mm blank cartridge is used on the Pack 75 howitzer for ceremony, parade, and training purposes. The cartridge consists of a brass aluminum cartridge case

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports Presidential and VIP salutation, simulated firing, and annual peacetime training.

TYPE CLASSIFICATION DATE:

Exhibit P-5. Weapon	Ì	Appropriation/ Budget Activity/Serial No.	get Activity/	Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:		ľ	Weanon System Type.			
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMU	/ 1 / NOILINC		CTG ARTY	CTG ARTY 75MM BLANK M337A1 (E15200)	337A1 (E15200)					February 1998
Ammunition	₽		FY 96			FY 97			EV 98			EV 90	
Cost Elements	8	TotalCost	oty	UnitCost	TotalCost	oty.	UnitCost	TotalCost	Ž	UnitCost	TotalCost	AFO Ofv	UnitCost
		\$000	Each	s	\$000	Each	ş	\$000	Each	6-7	\$000	Each	
AMMUNITION HARDWARE Load, Assemble and Pack *Black Powder, Class 1 (LB) Primer Perc M1B1A2 *Primer Perc M61		886 149 204 23	39487 55282 40277 40672	22.45 2.70 5.07 0.58				2135 265 381		30.49 2.70 5.33			42.76
SubTotal AMMO Hardware		1262						2803	3		1454		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing		39		***				286			78		
Industrial Stock Support CAWCF Gain/Loss Surcharge		231						76			59		
SubTotal Prod. Support		346						382			112		
COST - Nonrecurring *Government Furnished Material		-149						-287			r, ₂		
SubTotal COST-Nonrecurring		-149						-287					
			- 1001111111111111111111111111111111111										
TOTAL		1459		36.95				2898		41.40	1566		46.06
								144.	- 4				

								Date:		
EXHIBIT F	Exhibit P-5a, Budget Procurement F	istory an	urement History and Planning					F	February 1998	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		-1 Line Item N	P-1 Line Item Nomenclature:				-
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG ARTY	CTG ARTY 75MM BLANK M337A1 (E15200)	37A1 (E152	ŀ	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΔTΛ	Unit Cost	Specs Avail	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	
Load Assamble and Pack									<u>.</u> .	
FY 96	Mason-Hanger Silas	•			1		1			
	(lowa AAP)	SS/CPFF 10C	20	Mar-97	Sep-97	39487	22.45			
80 >1	Middleton, IA Mason-Hander Silas	SS/CPFF 10C	00	Mar-98	99-unf	70000	30.49	YES		Oct-97
	(lowa AAP)									
	Middleton, IA									
±++66 ⊬+	Mason-Hanger Silas	SS/CPFF 10C	100	Mar-00	Jun-00	34000	42.76	YES	_	Oct-98
	(Iowa AAP)									
	Middleton, IA			,						
*Black Powder, Class 1 (LB)			V.14	VIV	Δ/N	55282	A/W			
FY 96	Stock Issue	¥	¥/2	2 2		20202	Ψ/N	(A		Δ/N
FY 98	Stock Issue		¥/N	2 2	2 2	20000				
FY 99	Plant Procured		N/A	¥ 2	<u> </u>	Ĭ Ž	17			(
Primer Perc M181A2										
FY 96	Day & Zimmerman	SS/CPFF 10C	100	Nov-96	Mar-97	40277	5.07			
	(Lone Star AAP)				:					7
FY 98	Day & Zimmerman	SS/CPFF 10C	201	Mar-98	Mar-99	/1400	5.33	YES		/a-100
	(Lone Star AAP)									
90	Fixer Received	N/A	A/N	Α/N	ΑN	A/A	N/A	A/N	•	ΑX
		,								
REMARKS: *Government Furnished Material										

*Government Furnished Material

	Exhibit P-5a, Budget Procurement History and Planning	listory a	nd Planning					Date:	February 1998	866
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:	em Type:		P-1 Line Item	P-1 Line Item Nomenclature:				
		, outroop				CIG AKIY	CIG ARIY 75MM BLANK M337A1 (E15200)	37A1 (E1	5200)	
V65 Cost Elements: Fiscal Years	Contractor and Location	Method	Location of PCO	Award Date		αTΥ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
*Primer Perc M61		and Type			Delivery	Each	s,	Now?	Avail	
FY96	Day & Zimmerman	SS/CPFF 10C	100	Nov-96	Mar-97	40672	0.58			
FY 98	(Lone Star AAP) Stock Issue	V/N	V /V	47.74						
FY 99	Plant Procured	Z Z	N/A	₹	4	0,7700 N/A	A X	Α Α Σ Σ	7	₹ X
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REMARKS: * Government Furnished Material	Te -									

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998	:	
Appropriation / Budget Activity/Serial No.	rial No:					P-1 Item Nomenclature:	ıre:					
ä	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					CTG ARTY	CTG ARTY 105MM DPICM XM915 (E53500)	15 (E53500)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
35	64802/D531			m								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty				2	4							6
Gross Cost	0.0	0.0	0.0	13.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	23.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0:0	0.0	0.0	13.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	23.3
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	13.5	9.8	0.0	0.0	0.0	0:0	0:0	0:0	23.3
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

Rhombus fragmentation pattern for superior anti-personnel performance. In response to the problem of hazardous battlefield duds, the XM80 grenade will be the first assembly which is scalloped to contain the cargo without additional ancillary hardware (keys, splines, spacers, etc.). Projectile functioning is the same as the 155mm M200 propelling charge whose projectiles contain a sub-munition payload of 42 dual purpose XM80 grenades. The projectiles utilize a one piece all steel body/ogive The 105MM Dual Purpose Improved Conventional Munition (DPICM) XM915 is the extended range round for the M119A1 howitzer. This cartridge incorporates the ICM bomblet to utilize self destruct fuzing. This item is code B, PE 64802, not approved for service use. This item has not transitioned to the SMCA and will be ICM round, the M483A1. The XM80 is a 1.22 inch diameter fragmentation/shaped charge grenade optimized for the 105mm system. It uses a post embossed produced as actual cost.

JUSTIFICATION:

the dud rate problem of any unexploded sub-munitions should be greatly reduced. Procurement builds war reserve stockpiles in support of the Army's procurement sustainability of the LID on the battlefield. It replaces the Cartridge, 105mm and Anti-Personnel (APICM), M444. By utilizing a self-destruct fuze with sub-munition, Procurement supports the acquisition of a more lethal artillery round and provides "deep strike" round capability for the Light Infantry Division (LID). It increases

Type Classification Date: TC LRP February 1998

TC STD September 1998

Exhibit P-5, Weapon	₹.	Appropriation/ Budget Activity/Serial No:	dget Activity	/Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:		ř	Weapon System Type:		Date	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	UNITION / 1 /		CTG ARTY	CTG ARTY 105MM DPICM XM915 (E53500)	(M915 (E53500)		M119A1 howitzer	zer		February 1998
Ammunition	₽	1 1	FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	ofty.	UnitCost	TotalCost	Qty	UnitCost
AMMINITION LABORADE		\$000	×1000	S	\$000	×1000	φ,	\$000	×1000	ક્ર	\$000	×1000	ક
1. Load, Assemble, and Pack 2. Proi Mtl Parts	<u>m</u>				1,169	ייטיי	256.92	956	4 4	262.64			
3. Fuze, ET M762					341	O PO	69.82	457	1 4	125.03			
4. Gren Body Assy 5. Fuzes: XM234 Gren SD					1,934	202 202	9.43	1,480	153	9.64			
6. Cartridge Case XM217					221	, v	45.25	169	<u>8</u> 4	15.55 46.24			
7. Container PA 117 8. Other Hardware					346	ស	70.84	265	4	72.50		-	
SubTotal AMMO Hardware					14 407	PR							
								8,048					
Production Support Costs													
Production Engineering Quality Assurance	-				1016			414					
 Proof & Acceptance Interim Transportation 					330			260					
										· · · · · · · · · · · · · · · · · · ·			
SubTotal Prod. Support					1,510	•	7.0	773					
COST - Nonrecurring 1. Government Furnished Material 2. First Article Testing					-132		-	9 6				* · · · · ·	
3. Firing Tables/Software Update					200			2					
SubTotal COST-Nonrecurring					468			46				·	
					-								
		# · . <u>-</u>											
TOTAL					13,475		2,961.54	9.775		2,685,44	7 70.00		
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								Date:		
Exhibit F	Exhibit P-5a, Budget Procurement H	listory ar	urement History and Planning					Fe	February 1998	88
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		o-1 Line Item i	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						CTG ARTY	CTG ARTY 105MM DPICM XM915 (E53500)	M915 (E53	200)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QΤΥ	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	s	Now?	Avail	
1. Load, Assemble, and Pack	2 3 3		. 00	00 2014	00 402	4 550	00 030			
FY 97	Day & Zimmerman inc	SS/CPFF	200	Mar-90	A10-99	9,550 040 040	26.062	× 0		
00	(Lone Star AAP)		2		- Sant	5	10.707	3		
2. Proj Mtl Parts					-					
FY 97	Chamberlain Mfg. (Scranton, PA)	SS/FP	TACOM-ARDEC		Aug-98	4,884	750.00			
FY 98	Chamberlain Mfg. (Scranton, PA)	SS/FP	TACOM-ARDEC	Mar-98	Feb-99	3,655	766.62	≺es		
3 Eire ET M762										
5. ruze, El M/02 F/ 97	Multiple	Stock	00	Stock	Stock	4.884	69.82			
FY 98	Multiple	Stock	00	Stock	Stock	3,655	125.03	≺es		
4. Gren Body Assy				1						
FY 97	Amron Corporation	SS/FP	TACOM-ARDEC	Mar-98	Ang-98	205,103	9.43			
FY 98	Amron Corporation	SS/FP	TACOM-ARDEC	Mar-98	Feb-99	153,492	9.64	≺es		
5 Fires XM234 Gren SD	waukesna, wis.									
FY 97	KDI Precision Products	SS/FP	TACOM-ARDEC	Mar-98	Aug-98	205,103	15.00			
FY 98	KDI Precision Products	SS/FP	TACOM-ARDEC	Mar-98	Feb-99	153,492	15.33	Yes		
	Cincinnati, OH									
6. Cartridge Case XM217										
FY 97	UNKNOWN	C/FP	TACOM-ARDEC	Mar-98	Aug-98	4,884	45.25		•	
FY 98	UNKNOWN	C/FP	TACOM-ARDEC	Mar-98	Feb-99	3,655	46.24	Yes		
7. Container PA 117							i			
FY 97	UNKNOWN	C/FP	TACOM-ARDEC	Apr-98	Sep-98	4,884	70.84			
FY 98	UNKNOWN	C/FP	TACOM-ARDEC	Apr-98	Mar-99	3,655	72.50	\ ∀es		
REMARKS: * GFM as shown on the P5 consists of COMP A5 and M10 Propellant and are part of the Other Hardware line.	COMP A5 and M10 Propellant and are	e part of the	Other Hardware line.						1	

EV 88 / 99 PILICEST BOOK SCHEDINE	Ę	ION NOI	רוניטוו	U		_	P-1 Item Nomenclature:	Nomen	clatur	ature:		č								Date:	60			1	,	8		
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 Load, Assemble, and Pack 																	Н	H	Н	Щ	Н		_					
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		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	rial No:					P-1 Item Nomenclature:	ure:					
**	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					PROJ ARTY 1	PROJ ARTY 155MM SMOKE WP M825 (E67800)	A825 (E67800)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	460											460
Gross Cost	189.4	0.0	5.0	11.6	12.3	0:0	0.0	0.0	0.0	0.0	0.0	218.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	189.4	0.0	5.0	11.6	12.3	0.0	0.0	0.0	0.0	0:0	0.0	218.3
Initial Spares												
Total Proc Cost	189.4	0.0	5.0	11.6	12.3	0.0	0.0	0.0	0:0	0:0	0.0	218.3
Flyaway U/C												
Wpn Sys Proc U/C										i i		
DESCRIPTION:												

or electronic time fuze is used to detonate the expulsion charge setting off a chain reaction resulting in the expulsion, ignition, and dissemination of the felt wedges thus creating the desired smoke screen. This maneuver forces by reducing the effectiveness of enemy visual observation. The M825 series projectile consists of a modified M483A1 carrier, a felt wedge payload, a base, and a separately issued fuze. The modified carrier uses steel instead of the standard M483A1 fiber glass wrap about the circumference of the projectile carrier to offset the low density of the payload. The payload consists of 116 WP soaked felt wedges in a hermetically sealed canister positioned in the projectile body between the ogive and the base. The canister is a cylinder of thin rolled steel to which flat steel ends are welded. Either a mechanical The M825 series 155mm white phosphorous (WP) smoke projectile is designed to be ballistically similar to the M483A1 family of projectiles and is compatible with all current and developmental U.S. 155mm artillery weapon systems. The M825 series projectile is required to provide fire support to forward area troops and equipment. Artillery delivered smoke screens are required in combat situations to support item is Code A, approved for service use.

JUSTIFICATION:

threatens the safety of the using unit. The purpose of the materiel change is to test an improved design to allow resumption of prior year production and subsequent renovation of existing stocks. Renovation of This is a training standard item used in both training and combat. Procurement supports an urgently needed materiel change to correct current design defects that result in a high malfunction rate which these stocks is required to support annual peacetime training requirements and build a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-40,	Budget Item Justification Sheet

			7. 7. 6	3.7	1000			Date:				
		Exhibit P-4	Exhibit P-40, Budget item Justification Sheet	tem Justific	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	Serial No:					P-1 Item Nomenclature:	(ure:					
	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	munition					PROJ AR	PROJ ARTY 155MM HE M795 (E66800)	(E66800)		
Program Elements for Code B Items:	tems:			Code:	Other Related Program Elements:	ram Elements:						
				٨								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty		62	130	84	74							367
Gross Cost	0:0	53.6	51.6	39.9	35.2	0:0	0.0	0.0	0.0	0.0	0:0	180.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	53.6	51.6	39.9	35.2	0.0	0.0	0.0	0.0	0.0	0.0	180.3
Initial Spares												
Total Proc Cost	0.0	53.6	51.6	39.9	35.2	0.0	0.0	0.0	0.0	0.0	0.0	180.3
Flyaway U/C												
Wpn Sys Proc U/C		0.0007	0.0004	0.0005	0.0005							0.0005
DESCRIPTION: The M795 projectile consists of 23.8 pounds of TNT explosive loaded into a 78.1 pound high fragmentation steel body assembly.	he M795 proje	ectile consist	's of 23.8 po	unds of TNT	explosive to	saded into a	78.1 pound !	nigh fragmer	tation steel	body assem	bly. The pro	The projectile is
Sitted with a protective about the alternative of the ness and a grammet which protects the retation and during and handling. The projection	tive chook of	variating liftin	a the pile of	e pue para	drommet with	hich protocte	the retating	hand during	chinning on	4 hondling	The projectify	•

conventional fire support for Harassment and Interdiction, fragmentation, mining and blast effect. It is also used as a registration round for the M483A1 family of cargo fitted with a protective shock attenuating lifting plug at the nose and a grommet which protects the rotating band during shipping and handling. The projectile can use munitions and can be used as a registration round for the 155mm Sense and Destroy Armor (SADARM) M898. It provides greater range and effectiveness than the several different fuzes (impact, mechanical time and short intrusion proximity). The M795 will supplement the currently stockpiled M107. It will be used for M107, which cannot be fired at top zone with the M203A1 (Zone 8) charge. This item is Code A, approved for service use.

JUSTIFICATION: The M795 will support the following howitzers: M198, M109 Series, including Paladin, and the Trilateral FH70 and Crusader.

TYPE CLASSIFICATION DATE: February 1982

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 1 / Ammunition	dget Activity/ ENT OF AMMI Ammunition	/Serial No: UNITION / 1 /		P-1 Line Iten PROJ AR	P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M795 (E66800)	795 (E66800)		Weapon System Type:	Туре:	Date: Febr	February 1998
	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CO	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost
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Ammoni I On HARDWAKE Load, Assemble, and Pack Metal Parts Metal Pallets Lifting Plugs	⋖	18333	130	231	11874 22094	88 85	141 259	10658 16800 2184 558	47 01 77	145 224 222 7			
SubTotal AMMO Hardware		48861			33967			30200					
Production Support Costs Production Engineering Quality Assurance Acceptance Testing		1305 411 1069			3957 574 1370			3490 303 1200					
SubTotal Prod. Support		2785			5901			4993					
COST - Nonrecurring													
SubTotal COST-Nonrecurring					4.71								
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PROCUREMENT OF AMMUNITION / 1 / Ammunition						PROJ AR	PROJ ARTY 155MM HE M795 (E66800)	95 (E6680((
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Metal Parts FY 96 FY 97	Chamberlain, Scranton AAP, PA		ARDEC, Picatinny Arsenal	Aug-96 Feb-98	30-100 Jul-98	132	231	kes Yes	<u>σ</u>	Sep-97
FY 98	Unknown	C/FFP	ARDEC, Picatinny Arsenal	Jul-98	Oct-00	75	224	Yes	<u> </u>	Jan-98
Metal Pallets FY 98	Unknown	C/FFP	ARDEC, Picatinny Arsenal	Aug-98	May-00	0	222	Yes		Mar-98
Lifting Plugs FY 98	Unknown	C/FFP	ARDEC, Picatinny Arsenal	Aug-98	May-00	77	2	Yes		Mar-98
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		Exhibit P-4	Exhibit P-40, Budget Iter	tem Justific	m Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	erial No:					P-1 Item Nomenclature:	ture:					
a.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Ar	nmunition					PROJ ARTY	PROJARTY 155MM SADARM M898 (E66300)	398 (E66300)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty		110	150	009	207	550	520	1450	1820	1926	42367	20000
Gross Cost	0.0	29.8	44.9	93.6	66.4	56.5	58.3	72.6	79.6	84.4	1319.1	1905.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	29.8	44.9	93.6	66.4	56.5	58.3	72.6	79.6	84.4	1319.1	1905.2
Initial Spares												
Total Proc Cost	0.0	29.8	44.9	93.6	66.4	56.5	58.3	72.6	9.62	84.4	1319.1	1905.2
Flyaway U/C		0.264	0.294	0.155	0.129	0.101	0.111	0.049	0.043	0.043	0.031	0.038
Wpn Sys Proc U/C		0.271	0.299	0.156	0.131	0.103	0.112	0:020	0.044	0.044	0.031	0.038
DESCRIPTION: The 155mm Sense and Destroy Armor (SADARN	155mm Sense	and Destroy	Armor (SADAF		will provide a	n enhanced counter	ounterbattery a	and anti-armo	red vehicle ca	pability to atta	I) projectile will provide an enhanced counterbattery and anti-armored vehicle capability to attack targets well beyond the	beyond the

armored personnel carriers and other stationary lightly armored threat vehicles encountered in counterfire, close support, Suppression of Enemy Air Defense (SEAD) and interdiction. The through Tactical Fire Control System (TACFIRE), Advanced Field Artillery Tactical Data System (AFATDS), and appropriate target acquisition sources. The item is Code A, approved for battlefield conditions and Nuclear, Biological, Chemical (NBC) environments, both day and night. The SADARM munitions are designed for use against self-propelled howitzers, lightly infrared sensors, and fires an explosively formed penetrator through the top of the target. The projectile is compatible with the momentum limits of standard and developmental 155mm 155mm SADARM is delivered in the same manner as other 155mm munitions. Once dispensed from its carrier, the submunition detects targets using dual-mode millimeter wave and Forward Line of Troops (FLOT). The SADARM projectile will function in a fire and forget mode. This indirect fire mission can be accomplished under inclement weather, degraded Howitzers including Crusader and LW155 Towed. It is ballistically similar to the cargo family of 155mm ammunition. Operational interface with other systems will be accomplished limited service use.

JUSTIFICATION: The FY 1999 budget provides for production of war reserve requirements. The SADARM procurement will provide pinpoint accuracy to destroy hardened targets and will reduce consumption of artillery ammunition. SADARM will support the Howitzer M109 series, including Paladin and M198 Howitzer systems

Type Classification Dates: Low Rate Production: January 1995

Standard: September 1998

Milestone Approval: Milestone IIIA (DAB): March 1995

Milestone III (ASARC): December 1998

Exhibit P-5, Weapon	È	Appropriation/ Budget Activity/Serial No.	get Activity/	Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	Ammunition	/ L / NO! ! NO		2027	PROJAKIT 155MM SADAKM MASS (E66300)	JAKW WB98				1097	February 1996
Ammunition	₽		FY 96	-		FY 97			FY 98			FY 99	
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Exhibit P-21, Production Schedule

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3 Aerojet, Azusa CA (FY01-03)	135	Н	150	375			REORDER	H	Ц		\vdash		T	Ī		Ļ		<u>۽</u> م	een red	esigne	been redesigned to be more efficient the lower program rates . When the	more ef	been redesigned to be more efficient at the lower program rates. When the	_
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ıre:					
á	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					PROJ AR1	PROJ ARTY 155MM HE M107 (E27601)	(E27601)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	26605					124	163	317	387	339		27935
Gross Cost	950.7	0.0	0.0	0.0	0.0	25.7	34.1	6.99	82.6	73.4	0.0	1233.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	950.7	0.0	0.0	0.0	0.0	25.7	34.0	6.99	82.6	73.4	0:0	1233.3
Initial Spares												
Total Proc Cost	950.7	0.0	0.0	0.0	0:0	25.7	34.0	6.99	82.6	73.4	0.0	1233.3
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

14.6 pounds of TNT or 15.4 pounds of Composition B explosives. The normal cavity model will not accommodate a proximity-type fuze. The deep-cavity model has a This is a multi-purpose high explosive projectile fired from 155mm howitzers. It is used for blast effect and fragmentation. The projectile may be loaded with either supplementary charge of .3 pounds which may be removed to allow the use of proximity fuzes. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training requirements and builds war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	r	Appropriation/ Budget Activity/Serial No:	iget Activity	Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:		2	Weapon System Type:		Date	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	UNITION / 1 /		PROJ AR	PROJ ARTY 155MM HE M107 (E27601)	107 (E27601)					February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
S	8	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty -	UnitCost
		\$000	×1000	\$	000\$	×1000	\$	\$000	×1000	8	\$000	×1000	s
Ammuniion hakbwake Load, Assemble and Pack Proj M107 MPTS *Proj MPTS M107											9903	124	79.86
*Comp B Type I Grade A (LB) *TNT Type I, Flake (LB)											3114	2009	107.00
Chg Suppl LAP Liner, Fuze Cavity											496	126	3.92
Plug, Shock Attenuating Grommet											625 130	126	4.94 1.02
Sub lotal AMMO Hardware									-	-	31507		
Production Support Costs Production Engineering Quality Assurance											62		
Acceptance Testing Interim Transportation Industrial Stock Support											127 318 628		
SubTotal Prod. Support											1152		***
COST - Nonrecurring		API-API-A							*******				
*Government Furnished Material		- ,,									-7009		
SubTotal COST-Nonrecurring								-			-7009		
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TOTAL					٠						25650		206.85

								Date:		
Exhibit 1	Exhibit P-5a, Budget Procurement History and Planning	listory ar	nd Planning					ш	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		2-1 Line Item !	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						PROJ AF	PROJ ARTY 155MM HE M107 (E27601)	07 (E276	(11	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΔTΥ	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	×1000	s	Now?	Avail	
Load, Assemble and Pack FY 99	TBS	C/FP	201	Mar-99	Mar-00	124	79.86	Yes		Oct-98
Proj M107 MPTS ** FY 99	TBS	C/FP	200	Mar-99	Jan-00	101	131.43	Yes		Oct-98
*Proj MPTS M107 FY 99	Stock Issue	N/A	N/A	N/A	N/A	52	Y/Z	Ø. VZ		N/A
*Comp B Type I Grade A (LB) FY 99	Stock Issue	N/A	N/A	N/A	N/A	2009	N/A	Ą X		N/A
*TNT Type I, Flake (LB) FY 99	Stock Issue	N/A	N/A	N/A	N/A	843	N/A	A/A	, , , , , , , ,	N/A
Chg Suppi LAP FY 99	Day & Zimmerman (Lone Star AAP) Texarkana, TX	SS/CPFF IOC	200	Mar-99	Jan-00	126	3.92	Yes		Oct-98
Liner, Fuze Cavity FY 99	TBS	C/FP	000	Mar-99	Jan-00	126	0.35	Yes		Oct-98
Plug, Shock Attenuating FY 99	TBS	C/FP	<u> </u>	Mar-99	Jan-00	126	4.94	Yes		Oct-98
Grommet FY 99	TBS	C/FP	100	Mar-99	Jan-00	128	1.02	Yes		Oct-98
REMARKS: *Government Furnished Material										

**Pacing Component TBS - To Be Selected

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	Onc	TION SC	HED	ULE			<u>. </u>	1 ⊪e	P-1 Item Nomenclature:	menci	lature.	4	JIE: PRO LARTY 155MM LE M407 (E27601)	SMM L	Ī.	77 /E	7804)					<u> </u>	Date:					9		
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		Exhibit P-4	0, Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature:	ure:					
id	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	ımunition					FUZE ARTY EL	FUZE ARTY ELECT TIME M767M767A1 (E53500)	67A1 (E53500)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				۷								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	321				62							383
Gross Cost	41.5	0.0	0.0	6.0	14.7	0.0	0.0	0.0	0.0	0.0	0.0	56.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	41.5	0.0	0.0	0.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0	56.5
Initial Spares												
Total Proc Cost	41.5	0.0	0.0	6.0	14.7	0.0	0:0	0.0	0.0	0.0	0.0	56.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

on the same production line, the procurement of the M767 will accelerate the achievement of a unit cost reduction for the entire ET fuze family. This item is code A, The M767/M767A1 Electronic Time (ET) Fuze is a boostered version of the M762 Electronic Time (ET) Fuze. The M767 ET Fuze is a second generation design that Change will update the electronics package and will reduce the cost associated with key manufacturing processes. Since the M767 and M762 Fuzes are produced because of faster, easier setting methods. The M767 ET is also considerably more accurate that the MTSQ, especially over extended ranges. The M767 Materiel without increased cost. Employment of the M767 ET Fuze will result in fewer setting errors over the M582 Mechanical Time Super-Quick (MTSQ) that it replaces Standardization and Interoperability (RSI) agreements for artillery weapon systems. The fuze utilizes a quartz crystal for its time base providing greater accuracy developmental high explosive (HE) and bursting projectiles in the 105mm, 155mm and 8-Inch artillery weapon systems and will also comply with Rationalization has dual setting capability: (1) Hand set without need for any external setting device and (2) An automatic set for higher rates of fire. Automatic set will support development testing of the Advanced Field Artillery System (AFAS) and be available for use by AFAS when fielded. The Fuze will be used with all existing and approved for service use. This item has not transitioned to the SMCA and will be produced as actual cost.

JUSTIFICATION

Procurement continues to support testing, training and war reserve requirements of the family of Improved Conventional Munitions (ICM). The M767 is will replace the Mechanical Time Fuzes which have been phased out in FY 1990.

Type Classification Date: TC STD September 1988

Exhibit P-5, Weapon	╚	Appropriation/ Budget Activity/Serial No:	get Activity/	Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:		2	Weapon System Type.		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	UNITION / 1 /		FUZE AR	FUZE ARTY ELECT TIME M767/M767A1	W767/M767A1		FUZE, ARTILLERY, ELEC TIME M767/M76741 (F61200)	RY, ELEC TIME	Febr	February 1998
Amminition	₽		FY 96			FY 97	(20000)		FY 98			FY 99	
s	8	TotalCost	Q ty	UnitCost	TotalCost	Qţ.	UnitCost	TotalCost	αty	UnitCost	TotalCost	Qty	UnitCost
	П	\$000	Each	s	\$000	Each	\$ >	\$000	Each	S	000\$	Each	s
AMMUNITION HARDWARE 1. Load, Assemble, and Pack 2. Fuze Metal Parts 3. Box, Metal, M2A1	∢							353 7315 52	61500 61500 7750	5.74 118.94 6.71			
SubTotal AMMO Hardware								7720					
Production Support Costs 1. ENGINEERING SUPPORT 2. QUALITY ASSURANCE 3. PROOF & ACCEPTANCE 4. INTERIM TRANSPORTATION								662 86 650 56					
SubTotal Prod. Support								1454					
COST - Nonrecurring 1. First Article Testing 2. Materiel Change 3. Replacement of Expired Year Funds					900			150					
SubTotal COST-Nonrecurring					608			5490					·
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тотаг					309			14664		236.52			

Exhibit	Exhibit P-5a Budget Procurement History and Diaming	Hietory a	nd Diamina					Date:		
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Appropriation / Budget Activity/Senal No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type. FUZE, ARTILLERY,	eapon System Type: FUZE, ARTILLERY, ELEC TIME M767/M767A1 (F61200)		P-1 Line Item	P-1 Line Item Nomenclature: FUZE ARTY E	Nomenclature: FUZE ARTY ELECT TIME M767/M767A1 (E53500)	/M767A1	(E53500)	
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	ΑTΑ	Unit Cost	Specs	Date	RFP Issue
Fiscal Years		and Type			Delivery	Each	69	Avail	Revsn	Date
1. Load, Assemble, and Pack							,	MON	U Avail	
FY 98	Martin Warietta (Milan AAP) Milan TN	SS/CPAF IOC	00	Mar-00	Sep-00	61500	5.74	YES	9	
2. Fuze Metal Parts										
FY 98	Unknown	C/FP	TACOM-ARDEC	Mar-98	Mar-00	61500	118.94	YES	Sep 99	
3. Box, Metal, M2A1	-									
下 98	Unknown	C/FP	TACOM-ARDEC	Mar-98	Feb-00	7750	6.71	YES	9	
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REMARKS:										

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	EX	Exhibit P-40,	Budget It	-40, Budget Item Justification Sheet	cation Sh	eet				February 1998		·
Appropriation / Budget Activity/Serial No.	ity/Serial No:					P-1 Item Nomenclature.	lature:					
PRO	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 /	Ammunition					MINE AT I	MINE AT M87 (VOLCANO) (E72195)	(E72195)		
Program Elements for Code B Items:	B Items:			Code:	Other Related Pr	Other Related Program Elements.						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2003 To Complete Total Prog	Total Prog
Proc Qty	145	15	10	4	3							179
Gross Cost	295.8	43.9	29.2	15.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	400.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	295.8	43.9	29.2	15.0	16.6	0.0	0.0	0.0	0.0	0.0	0:0	400.5
Initial Spares												
Total Proc Cost	295.8	43.9	29.2	15.0	16.6	0:0	0.0	0.0	0.0	0.0	0.0	400.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

routes or terrain. This system is critical for the United States Army to be able to conduct Full-Dimensional Operations. This item is Code A, emplacement of a minefield (1000 meters by 100 meters) that will delay, disrupt and canalize enery forces and restrict their use of critical This canister will be loaded with six improved sensor anti-tank (AT) mines. This canister is designed for quick connect/disconnect to aid loading/unloading and is expendable after use. These mines will be deployed by the Volcano M139 Mine Dispenser to permit quick approved for service use. This item has not transitioned to the SMCA and will be procured at actual cost.

JUSTIFICATION:

The Volcano system is a key component of the Army landmine program. This system will replace the use of hand emplaced conventional minefields, thereby reducing the exposure of personnel to hostile fire.

The date for transition to the SMCA has not been determined.

Type Classification Date - M87

M87 Standard - January 1989

M87A1 LRIP - March 1994: Standard - September 1994

Acquisition Manager: Project Manager for Mines, Countermine and Demolitions (PM-MCD)

_		Appropriation/ Budget Activity/Serial No.	Budget Ac	tivity/Serial No:		P-1 Line I	P-1 Line Item Nomenclature:	ure:		Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1	ENT OF AM	MUNITION / 1		MINE A	MINE AT M87 (VOLCANO) (E72195)	VO) (E72195)				Febr	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	ģ	UnitCost	TotalCost	Q.	UnitCost
	Ц	000\$	Each	\$	\$000	Each	ક્ર	\$000	Each	S	\$000	Each	\$
HARDWARE													
LAP (Modified System Contract) Alliant Techsystems, Edina, MN	∢	26887	10000	2689	12432	4240	2932						
LAP (M87A1) Lone Star AAP, Texarkana, TX								4056	2000	811			
MSEP Electronic Lens Alliant Techsystems, Edina, MN			, ,					9450	31500	300			
Coil & Strap Assembly S&K Inc, Ronan, MT		867	8400	103	629	6188	103	551	5250	105			
Metal Parts Sets JTM Inc, Amarillo TX		948	8755	108	147	1358	108	578	5250	110			
AT S&A Assembly Action Mfg, Philadelphia, PA			***	·	1285	42000	31	995	32500	31			
Miscellaneous		64			36			48					
SUBTOTAL		28766			14539			15678					
PRODUCTION SUPPORT					-	1						•	
PRODUCTION ENGINEERING QUALITY ASSURANCE LOT ACCEPTANCE TESTING	-1	250			349 85	•		720 138 82					
SUBTOTAL		396			434			940					
					- · · · · · · · · · · · · · · · · · · ·						N		
TOTAL		29162	10000	2916	14973	4240	3531	16618	5000	3324			

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Exhibit P-5a,	a, Budget Procurement History and Planning	History	and Planning					Febr	February 1998	
Appropriation / Budget Activity/Serial No:		Weapon System Type:	tem Type:		-1 Line Iten	P-1 Line Item Nomenclature:	.nre:			Γ
PROCUREMENT OF AMMUNITION / 1 / Ammunition						MINE AT	MINE AT M87 (VOLCANO) (E72195)	O) (E72195		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΩTY	ost		_	RFP Issue Date
Hiscal Years LAP (Modified System Contract) FY 96 FY 97	Alliant Techsystems, Edina,, Alliant Techsystems, Edina,,	Option	ARDEC ARDEC	Sep-96 Feb-97	Jan-98 Jun-98	10000 4240	2689 2932	Yes Yes	A Vall	
LAP (M87A1) FY 98	Day&Zimmerman (Lone Star AAP, Texarkana, TX	SS/CPIF IOC	20	Apr-98	Sep-99	5000	811	×es		·
MSEP Electronic Lens FY 98	Alliant Techsystems, Edina,	C/FP	ARDEC	Jul-98	May-99	31500	300	Yes		
Coil & Strap Assembly FY 96 FY 97 FY 98	S&K Electronics Inc, Ronan, S&K Electronics Inc, Ronan, S&K Electronics Inc, Ronan,	Option Option Option	ARDEC ARDEC ARDEC	May-96 Feb-97 Apr-98	Mar-97 Dec-97 Feb-99	8400 6188 5250	103 103	≺es ≺es ≺es		
Metal Parts Sets FY 96 FY 97 FY 98	JTM Inc, Amarillo, TX JTM Inc, Amarillo, TX JTM Inc, Amarillo, TX	SS/FP Option Option	ARDEC ARDEC ARDEC	Sep-96 Feb-97 Apr-98	Jun-97 Sep-97 Oct-98	8755 1358 5250	108 108 110	× × × × × × × × × × × × × × × × × × ×		
AT S&A Assembly FY 97 FY 98	Action Mfg., Philadelphia, PA Action Mfg., Philadelphia, PA	Option Option		Jan-97 Apr-98	May-97 Oct-98	42000	अ अ	Yes Yes		
REMARKS: The Modified System Contract includes the anti-tank electronics, bore rider pin release mechanism, third party LAP contract and third party lot acceptance testing.	udes the anti-tank electronics, b ince testing.	ore rider p	in release mechanism, thii	d party L	ط ط					

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	Ē	Exhibit P-40,	Budget It	em Justifi	-40, Budget Item Justification Sheet	eet				February 1998		
Appropriation / Budget Activity/Serial No:	ity/Serial No:					P-1 Item Nomenclature;	lature:					
PRO	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 /	Ammunition					WIDE AR	WIDE AREA MUNITIONS (E78100)	E78100)		
Program Elements for Code B Items:	B Items:			Code:	Other Related Pr	Other Related Program Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2003 To Complete Total Prog	Total Prog
Proc Qtv			106	70	74	88	330	310	1070	1125		3165
Gross Cost	0.0	0.0	14.6	10.0	15.0	9.6	24.5	23.7	58.4	58.0	0.0	213.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	14.6	10.0	15.0	9.6	24.5	23.7	58.4	58.0	0.0	213.7
Initial Spares												
Total Proc Cost	0.0	0:0	14.6	10.0	15.0	9.6	24.5	23.7	58.4	58.0	0.0	213.7
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The M93 Wide Area Munition is a first generation smart munition. It weighs 35 pounds and can be transported by a single soldier. It has the meters. The M93 is designed for command control of the Arm/Destruct functions. This item has not transitioned to the SMCA and will be capability to recognize armor and heavy truck targets and to autonomously aim and launch its submunition to an effective radius of 100 procured at actual cost.

JUSTIFICATION:

The M93 Wide Area Munition supports high mobility/offensive operations. Its design for flexible/rapid deployment combined with cost effective logistics and a self covering minefield capability provides increased performance and leathality over current mines in inventory. The FY1999 procurement is required to build war reserve inventory in support of Department of Defense guidance. The date for transition to the SMCA has not been determined.

Type Classification Date: June 1996-Low Rate Initial Production (LRIP)

Type Classification Date: June 1998-Standard

Acquisition Manager: Project Manager for Mines, Countermine and Demolition (PM-MCD)

Exhibit P-5, Weapon Ammo Cost Analysis	₹ a	ppropriation/ B ROCUREMEN	n/Budget Activ IENT OF AMIV / Ammunition	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line II WIDE A	P-1 Line Item Nomenclature: WIDE AREA MUNITIONS (E78100)	ture: NS (E78100)		Weapon System Type.		Date: Febri	February 1998
Ammunition I	Ω		FY 96			FY 97			FY 98			FY 99	
6	<u>. a</u>	TotalCost	o oth	UnitCost	TotalCost	Qty	UnitCost	TotalCost	oty	UnitCost	TotalCost	otv	UnitCost
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Awinon Tak Divake 1. Load, Assemble, and Pack -Wide Area Munition-Complete		14173	106	133708	8932	20	127600	8736	74	118054	9147		114338
SUBTOTAL		14173			8932			8736			9147		
Production Support Costs Production Engineering Quality Assurance OGA Support		330			510 68 73			650 350 500			410		
SUBTOTAL	-	408			651			1500			478		
COST - Nonrecurring Producability EP Production Qualification Test Contractor Eng Support					399			2780 1569 395					
SUBTOTAL		· · · · · · · · · · · · · · · · · · ·			399			4744				****	
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Exhibit P-5, Weapon System Cost Analysis

Exhibit P-5a,	a, Budget Procurement History and Planning	History	and Planning					Date: Fe	February 1998	86
Appropriation / Budget Activity/Serial No:		Weapon System Type:	em Type:	Γ	P-1 Line Iter	P-1 Line Item Nomenclature:	ture:			
PROCUREMENT OF AMMUNITION / 1 / Ammunition						WIDEA	WIDE AREA MUNITIONS (E78100)	IS (E7810	(0)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date R Revsn	RFP Issue Date
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FY 96	Textron Defense Systems Wilmington, MA	SS/FPIF	SS/FPIF Picatinny Arsenal, NJ	96-unf	Mar-99	106	133708	≺es		
FY 97	Textron Defense Systems	Option	Picatinny Arsenal, NJ	76-Inc	Aug-99	2	127600	Yes		
FY98	Textron Defense Systems	Option	Picatinny Arsenal, NJ	Dec-97	Jan-00	74	118054	Yes		
	Wilmington, MA				1.					
FY99	Textron Defense Systems Wilmington, MA	Option	Picatinny Arsenal, NJ	Nov-98	Dec-00	8	114338	Yes		
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	Appropriation / Budget Activity/Serial No:	PRO	Program Elements for Code B Items:		Proc Otv	Gross Cost	Less PY Adv Proc	Plus CY Adv Proc	Net Proc (P-1)	Initial Spares	Total Proc Cost	Flyaway U/C	Wpn Sys Proc U/C

	EX	Exhibit P-40,	P-40, Budget Item Justification Sheet	em Justifi	ication Sh	eet		Date:	:	February 1998		
Appropriation / Budget Activity/Serial No:	ty/Serial No:					P-1 Item Nomenclature:	slature:					
PROC	PROCUREMENT OF AMMUNITIC	AMUNITION / 1 / ,	ON / 1 / Ammunition				BU	NKER DEFEATII	BUNKER DEFEATING MUNITION (TACTICAL) (E88401)	ACTICAL) (E884	101)	
Program Elements for Code B Items:	B Items:			Code:	Other Related Pr	Other Related Program Elements:						
	64802			œ								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2003 To Complete Total Prog	Total Prog
Proc Qty		1012	2215	1242	996							5435
Gross Cost	0.0	7.0	14.6	10.0	7.8	0.0	0.0	0.0	0.0	0.0	0:0	39.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	7.0	14.6	10.0	8.7	0.0	0.0	0.0	0.0	0.0	00	39.4
Initial Spares												
Total Proc Cost	0.0	7.0	14.6	10.0	8.7	0.0	0:0	0.0	0.0	0.0	0.0	39.4
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

disposable munition which is used to defeat earth and timber field fortifications (bunkers). It also defeats light armored vehicles and breaches systems available (M136, AT4 and the M72, LAW) are ineffective against bunkers. The BDM is light-weight (15.7 lbs.), man-portable and air masonary walls. The need for the BDM SMAW-D was identified during operations Urgent Fury, Just Cause and Desert Shield/Storm. Other deployable. The BDM will be used by contingency forces. This item is Code B, PE 64802, not approved for service use. This item has not The Bunker Defeat Munition Shoulder-Launched Multi-purpose Assault Weapon - Disposable (SMAW-D) is a stand-alone, single shot, transitioned to the SMCA and will be procured as actual cost.

JUSTIFICATION:

Procurement supports contingency forces only.

Type Classified (TC) Generic August 1993 & TC LP September 1994

Exhibit P-5, Weapon	<_	ppropriation/ B	Sudget Act	Appropriation/ Budget Activity/Serial No.		P-1 Line Ite	P-1 Line Item Nomenclature:	ure:		Weapon System Type:		Date:	
Ammo Cost Analysis	п.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	IENT OF AMN	MUNITION / 1		BUNKE	BUNKER DEFEATING MUNITION	MUNITION		Bunker Defeating Munition	iting Munition	Febr	February 1998
Ammunition	₽		FY 96			FY 97	(IACIICAL) (E88401)	8401)	FY 98			FY 99	
S		_	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost
	H	000\$	Each	s	\$000	Each	\$	000\$	Each	\$	000\$	Each	\$
AMMUNITION HARDWARE 1. COMPLETE ROUND 2. FIELD HANDLING SYSTEM	m	12860	2215	5805.87 1503.76	8203 198	1242 54	6604.67 3666.67	6380 154	966	6604.56 3666.67			
			Market and the second s										
SubTotal AMMO Hardware		13060			8401			6534					
Production Support Costs 1. Production Engineering 2. Quality Assurance 3. Acceptance Testing 4. Interim Transportation		852 171 448 50			927 171 448 35			667 137 448 35					
SubTotal Prod. Support		1521			1581			1287					
							-						
												,	
тотац		14581		6582.84	9982		8037.04	7821		8097.31			

Exhibit D.5a	5a Budget Procurement History and Diamina	Hietom	and Dlanning					Date:		
		riistory	and Planning					Fe	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Type	stem Type:		P-1 Line Iter	P-1 Line Item Nomenclature:	ture:			
PROCUREMENT OF AMMUNITION / 1 / Ammunition					BUNK	ER DEFEAT	BUNKER DEFEATING MUNITION (TACTICAL) (E88401)	(TACTIC	1L) (E884	(10
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΩT	Unit Cost	Specs	Date RI Reven	RFP Issue
Fiscal Years		and Type			Delivery	Each	s,	Now	Avail	
 COMPLETE ROUND FY 96 FY 97 FY 98 	TALLEY, MESA, AZ TALLEY, MESA, AZ TALLEY, MESA, AZ	SS/FP SS/FP Option	TACOM-ARDEC TACOM-ARDEC TACOM-ARDEC	Sep-96 Aug-97 Feb-98	Nov-98 Dec-99 Dec-00	2215 1242 966	5805.87 6604.67 6604.56		e 2	
2. FIELD HANDLING SYSTEM FY 96 FY 97 FY 98	TALLEY, MESA, AZ TALLEY, MESA, AZ TALLEY, MESA, AZ	SS/FP SS/FP Option	TACOM-ARDEC TACOM-ARDEC TACOM-ARDEC	Sep-96 Aug-97 Feb-98	Nov-98 Dec-99 Dec-00	133 42 42	1503.76 3666.67 3666.67	Yes	<u> </u>	
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REMARKS:				·						
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FY 98 / 99 BUDGET PRODUCTION S	200	Z O I		_				B	BUNKER DEFEATING MUNITION (TACTICAL) (E88401)	DEF	Ā	G MU	DIF	¥ E Z	CTIC	Œ Œ	8401)			-			_	February 1998	ary 19	98		
				PROC	ACCEP.	BAL				Fis	Fiscal Year 98	<i>l</i> ear	86							F	scal	Fiscal Year 99	r 99				Н	J
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		Exhibit P-4	Exhibit P-40, Budget Item	_	Justification Sheet		-			February 1998		
Appropriation / Budget Activity/Serial No: PROCIE	Serial No: PROCI IREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Ag	munition			P-1 Item Nomenclature:	Jre.	ROCKET, H	ROCKET, HYDRA 70, ALL TYPES (E37300)	S (E37300)	·	
of G observed and a second	COCOVERNE OF O			Opde.	Other Related Program Flements:	am Flements						
Program Elements for Code 5 items.												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	648.6	107.8	27.0	27.3	36.4	126.1	120.2	118.6	119.6	121.4	0.0	1453.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	648.6	107.8	27.0	27.3	36.4	126.1	120.2	118.6	119.6	121.4	0.0	1453.0
Initial Spares												
Total Proc Cost	648.6	107.8	27.0	27.3	36.4	126.1	120.2	118.6	119.6	121.4	0.0	1453.0
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:										:		
This hudget line includes Bocket HYDBA 70 ALL TYPES	indes Rocket	HYDRA 70	ALL TYPES			-						

This budget line includes Rocket HYDRA 70 ALL TYPES.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	get Activity	/Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	/ 1 / NOILION / 1 /		ROCKET,	ROCKET, HYDRA 70, ALL TYPES (E37300)	YPES (E37300)				Febr	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD		αty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	oto	UnitCost
-	Ц	000\$	×1000	6	\$000	^	\$	000\$	×1000	ક	\$000	×1000	\$
ROCKET HYDRA 70 MPSM HE M261 WHD ROCKET HYDRA 70 HE/RS M151/M433 ROCKET HYDRA 70 SMOKE M264		5648	ю	1602.84	16481	2	2384.38						
ROCKET HYDRA 70 MFSM PRAC M26/ ROCKET HYDRA 70 HE/PD M151/M423 ROCKET HYDRA 70 SIG PRAC M274		21358	94	468.86				11231	4. 45	783.39 555.09	38077 12057 75921	46 71 154	827.76 709.24 492.99
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TOTAL		27006			27252			36431			126055		
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Item No. 39 Page 2 of 28 260

		Exhibit P-4	Exhibit P-40, Budget Item		Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	arial No:					P-1 Item Nomenclature:	ıre:					
ä	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	munition			= .		ROCKET HYDRA	ROCKET HYDRA 70 MPSM HE M261 WHD (E37327)	1 WHD (E37327)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	88			2								96
Gross Cost	81.5	0.0	0.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	81.5	0.0	0:0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.0
Initial Spares												
Total Proc Cost	81.5	0.0	0.0	16.5	0.0	0.0	0.0	0.0	0.0	0:0	0.0	98.0
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:							-					

for armor penetration. The submunitions contain a ram air decelerator (RAD) stablizing device and 0.2 pounds of Comp B-4 high explosive with the body wall scored the submunitions enter into a near vertical descent over the target area. Each submunition is fuzed with an M230 fuze which will function regardless of impact angle. functions at the computer determined time to initiate the expulsion charge. Once the submunitions are ejected, the RAD's inflate and the arming sequence starts as warhead case, an expulsion charge, and nine full caliber M73 submunitions with an M439 remote setable fuze. Each submunition has a copper shaped charge liner M261 is mated to the MK66 Mod 3 rocket motor and is fired from either the M260 or M261 Light Weight Launcher. This item is Code A; approved for service use. internally to optimize fragment size against personnel and materiel. The M439 fuze is remotely set from the aircraft with time to target data. After firing, the fuze personnel, air defense systems, and materiel. The M261 Multipurpose Submunition (MPSM) warhead consists of a plastic nose cone assembly, an aluminum The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as

JUSTIFICATION:

This is a war reserve item; used only in combat. Procurement builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

982

Exhibit P-5, Weapon	¥.	Appropriation/ Budget Activity/Serial No.	iget Activity	Serial No.		P.1 Line Iten	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMI	UNITION / 1 /	•	ROCKET H	ROCKET HYDRA 70 MPSM HE M261 WHD	HE M261 WHD				Febru	February 1998
Ammunition	₽		FY 96			FY 97	(E3/32/)		FY 98			FY 99	
S	<u>i</u>	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	afy	UnitCost	TotalCost	oţo.	UnitCost
A WILLIAM TO DE WAS DE	H		Each	ક	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMONITION HAKDWAKE Load, Assemble, and Pack MK90 Prop Grain					12152 1260	6912 7396	1758.17 170.37						
SubTotal AMMO Hardware					13412	·····	*						
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge				1,7,00	613 19 146 127 531 1633								
SubTotal Prod. Support					3069		2384.38		·				

Procurement	and Planning
Exhibit P-5A,	History

	E-hibit D-5a Budget Drocurement	History or	rement History and Dlanning					Date:		
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Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item	P-1 Line Item Nomenclature:	n Nomenclature:	7 777 787 787	120707	
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WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	Unit Cost	Specs Avail	Date R Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$		Avail	
Load, Assemble, and Pack FY 97	Lockheed Martin Burlington, VT	C/FP	00	Dec-96	Nov-98	6912	1758.17	Yes		Oct-96
MK90 Prop Grain FY 97	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF 10C	00	Sep-97	Oct-98	7396	170.37	Yes		Jul-97
REMARKS: Lockheed-Martin Ordnance Systen FY97 program awarded as a perfor	Lockheed-Martin Ordnance System was purchased by General Dynamics Ordnance Systems in Jan 97. FY97 program awarded as a performance specification requirement contract.	rdnance Syst	ems in Jan 97.							

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		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 item Nomenclature:	ure;					
ā	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	ımunition					ROCKET HY	ROCKET HYDRA 70 SMOKE M264 (E37330)	64 (E37330)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	2		ε	2								12
Gross Cost	2.1	2'0	5.6	10.8	0.0	0.0	0.0	0.0	0'0	0.0	0:0	19.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2.1	2.0	5.6	10.8	0.0	0:0	0.0	0.0	0.0	0.0	0.0	19.2
Initial Spares												
Total Proc Cost	2.1	0.7	5.6	10.8	0.0	0:0	0.0	0.0	0.0	0.0	0.0	19.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:		-				-						

charge, and 72 RP wedges. The M264 warhead uses RP because of its stability and improved performance as a screening agent in hot temperature conditions. The M264 is designed to provide longer stand-off range and integration with the M439 range setable fuze. The M439 fuze permits the firing aircraft to remain in defilade personnel, air defense systems, and materiel. The systems smoke rocket consists of the M264 red phosphorus (RP) warhead and the MK66 Mod 3 rocket motor. and place smoke at ranges up to 6 kilometers. The M264 replaces a similar rocket that consists of a M259 white phosphorus warhead and a MK40 rocket motor. The warhead consists of a plastic nose cone assembly, an aluminum warhead case, a remote setable primary fuze (M439) with an umbilical cable, an expulsion The HYDRA 70 Weapon System is a family of aeriel rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as This item is Code A, approved for service use

JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

July 1995

Ammonistical Ammonistica Ammonistical Ammonistica Ammonistica Ammonistica Ammonistica Ammonistica Ammonisti	Exhibit P-5, Weapon	₹	Appropriation/ Budget Activity/Serial No:	get Activity/	Seriał No:		P-1 Line Iten	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
1	Ammo Cost Analysis		PROCUREMEN A	IT OF AMMI mmunition	UNITION / 1 /		ROCKET HY	YDRA 70 SMOKE	: M264 (E37330)				Fet	February 1998
e TotalCost Qty UnitCost TotalCost Qty UnitCost Scool Each \$ 5000		₽		FY 96			FY 97			FY 98			FY 99	
8000 Each \$ 8000 E			TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	oţć	UnitCost
8 3392 3312 1154.90 7761 6720 673 3544 189.96 7791 186 673 3544 189.96 7791 186 673 354 189.96 7791 186 673 378 1791 186 673 339 171 186 7791 18644 189.96 873 873 873 873 873 873 873 873 873 873		\forall	\$000	Each	\$	\$000	Each	\$	000\$	Each	S	\$000	Each	\$
## 4498 9127 9127 9127 9127 9127 9127 9129 9129	AMMUNITION HARDWAKE Load, Assemble and Pack AK90 Prop Grain		3825	3312 3544	1154.90 189.96	7761	6720	1154.90 189.96						
186 6 6 43 43 43 87 11 87 1067 811 811 1644 1644														
186 6 13 13 99 99 43 87 1 1067 1067 1067 11067 11067 11067 11067 11067 11067 11067 1106 1106	SubTotal AMMO Hardware		4498	··		9127								
7526 811 811 339 339 1644 1644 1657 167 178 187 187 187 187 187 187 187 187 18	Production Support Costs Production Engineering Quality Assurance Acceptance Testing		98 9 6 6	***		378 13 99								
ubTotal Prod. Support T - Nonrecurring 339 ubTotal COST - Nonrecurring 339	ndustrial Stock Support		43 1 526			1067								
339 ubTotal COST - Nonrecurring 339	SubTotal Prod. Support		811	,		1644			****					
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99 90 82 83	a O.		336											
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TOTAL 5648 1602.84 10771 1602.84	отаг	\dashv	5648		1602.84	10771		1602.84						

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Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		P-1 Line Item	P-1 Line Item Nomenclature:			ŀ	
PROCUREMENT OF AMMUNITION / 1 / Ammunition						ROCKET	ROCKET HYDRA 70 SMOKE M264 (E37330)	: M264 (E3	7330)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	αTγ	Unit Cost	Specs	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	
Load, Assemble and Pack	rite Manda			90 000	00	0,000	4454.00			
00 / 1	Lockneed Marun Burlington, VT	<u> </u>	20	Oe-Jap	Nov-98	3312	1154.90			
FY 97	Lockheed Martin	C/FP	ioc	Dec-96	Dec-98	6720	1154.90	Yes		Sep-96
	Durington, vi									
MK90 Prop Grain					•					
FY 96	Alliant Tech Sys (Radford AAP)	SS/CPAF 10C	100	Mar-96	Nov-97	3544	189.96			
	Radford, VA					-				
FY 97	Alliant Tech Sys (Radford AAP)	SS/CPAF 10C	20	Sep-97	Nov-98	7191	189.96	Yes		Jun-97
	Radford, VA									
					·					
	- 194 Maryle - 1					,				
REMARKS: Lockheed-Martin Ordnance Systems was purchased by General		Ordnance Sys	Dynamics Ordnance System in Jan 97.							

Lockheed-Martin Ordnance Systems was purchased by General Dynamics Ordnance System in Jan FY 96 and FY 97 program awarded as a performance specification requirement contract.

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		:
Appropriation / Budget Activity/Serial No.	erial No:					P-1 Item Nomenclature:	ure:					
<u>a</u>	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	nmunition					ROCKET HYDR	ROCKET HYDRA 70 MPSM PRAC M267 (E37334)	A267 (E37334)		
Program Elements for Code B Items.	ms.			Code:	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	208	42				46	44	37	37	37		451
Gross Cost	141.4	31.4	0.0	0.0	0.0	38.1	36.2	32.1	32.0	32.5	0.0	343.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	141.4	31.4	0.0	0.0	0.0	38.1	36.2	32.1	32.0	32.5	0.0	343.7
Initial Spares												
Total Proc Cost	141.4	31.4	0.0	0.0	0.0	38.1	36.2	32.1	32.0	32.5	0.0	343.7
Fiyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

except that three M75 practice submunitions, with a flash powder smoke signature, take the place of the nine M73 submunitions. Six inert submunitions are used to personnel, air defense systems, and materiel. The M267 Multi-Purpose Submunition (MPSM) practice round is identical in operation to the M261 tactical warhead complete the weight and balance requirements. The M267 uses the M439 remote fuze, is mated to the MK66 Mod 3 rocket motor with electromagnetic radiation protection, and is required to train with the fire control and rocket management systems on the COBRA and APACHE attack helicopters. This item is Code A, The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The M267 MPSM Practice round provides a cleaner, more effective rocket with which to train pilots.

TYPE CLASSIFICATION DATE:

1982

Exhibit P-5, Weapon	٧	Appropriation/ Budget Activity/Serial No:	get Activity	Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	UNITION / 1 /		ROCKET	ROCKET HYDRA 70 MPSM PRAC M267	M PRAC M267				Febru	February 1998
	₽		FY 96			FY 97	(FO) (O)		FY 98			FY 99	
Cost Elements	8	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	o ţţ	UnitCost
AMMINITION HABBIWABE	\dag	\$000	Each	\$	\$000	Each	€>	\$000	Each	ક્ર	\$000	Each	\$
Complete Round											35948	46000	781.48
SubTotal AMMO Hardware											35948		
Production Support Costs Production Engineering Quality Assurance											170 69		
SubTotal Prod. Support											239		
COST - Nonrecurring							-						
Material Change	-			*****							1890		•
SubTotal COST-Nonrecurring			•			*					1890		
									*				
												, <u></u>	
TOTAL	ᅱ										38077		827.76

									Date:		
	Exhibit	Exhibit P-5a, Budget Procurement H	listory an	urement History and Planning					Feb	February 1998	
Appropriation / Budget Activity/Serial No:	l No:		Weapon System Type:	ιType:		P-1 Line Item Nomenclature:	Vomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition	UNITION / 1 / Ammunition					<u>-</u>	ROCKET HYDR	ROCKET HYDRA 70 MPSM PRAC M267 (E37334)	.C M267 (E3	7334)	
WBS Cost Elements:		Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QΤΥ	Unit Cost	Specs Avail R	Date RI Revsn	RFP Issue Date
Fiscal Years			and Type			Delivery	Each	s		Avail	
Complete Round FY 95		Lockheed Martin	C/FP 10	100	Nov-95	Feb-98	42319	404.87			
FY 99***		Burlington, VT TBS	C/FP IC	200	Apr-99	Feb-01	46000	781.48	Xes	0	Oct-98
MK90 Prop Grain FY 95 FY 99		Alliant Tech Sys (Radford AAP) Plant Procured	SS/CPAF IOC N/A N/A	OC 1/A	Dec-94 N/A	Jan-96 N/A	45282 N/A	183.37 N/A	N/A		A/A
REMARKS: TBS - To Be Selected ***Complete Round Lockheed-Martin Ordr	TBS - To Be Selected ***Complete Round Lockheed-Martin Ordnance Systems was purchased by General	as purchased by General Dynamics Or	rdnance Syst	Dynamics Ordnance Systems in Jan 97.							

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE	5	ON SC	HEDOL	ı					ROCKET HYDRA 70 MPSM PRAC M267 (E37334)	ET HYC	NA 70	MPSN	PRAC	: M267	(E373	34)								-ebrua	February 1998			
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ıre:			:		
# d	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Am	munition					ROCKET HYDE	ROCKET HYDRA 70 HE/PD M151/M423 (E37335)	M423 (E37335)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
			-	∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	211				14	17	24	26	25	25		342
Gross Cost	61.3	0.0	0.0	0.0	11.2	12.1	17.7	19.1	19.0	19.4	0.0	159.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.3	0:0	0:0	0.0	11.2	12.1	17.7	19.1	19.0	19.4	0:0	159.8
Initial Spares												
Total Proc Cost	61.3	0.0	0.0	0.0	11.2	12.1	17.7	19.1	19.0	19.4	0.0	159.8
Flyaway U/C								-				
Wpn Sys Proc U/C												
DESCRIPTION:											-	

warhead consists of two main parts, the nose and the base, which is fabricated using nodular pearlitic malleable or ferritic malleable cast iron. The nose end of the warhead is threaded to receive the M423 fuze and is loaded with 2.3 lbs of Composition B4 explosive. The base section is fabricated from steel or cast iron and is personnel, air defense systems, and materiel. The M151 HEPD is a unitary fragmenting 10 lb anti-personnel warhead with the M423 Point Detonating Fuze. The threaded for attachment to the MK66 rocket motor. Upon detonation, the warhead fragments into thousands of small, high velocity fragments. This item will be The HYDRA-70 Weapon System is a family of aerial rockets used by Army Aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a war reserve item; used only in combat. The FY 99 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

26 February 1982

t P-5, \	_	Appropriation/ Budget Activity/Serial No:	get Activity	/Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:		ĺ	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	IUNITION / 1 /		ROCKET	ROCKET HYDRA 70 HE/PD M151/M423	D M151/M423				Febr	February 1998
Ammunition	₽		FY 96			FY 97	(E37335)		FV 48			EV 99	
Cost Elements	CD	TotalCost	oty.	UnitCost	TotalCost	aty	UnitCost	TotalCost	oty	UnitCost	TotalCost	Otv Otv	UnitCost
AMMINITION HABOWADE		\$000	Each	\$	\$000	Each	s	\$000	Each	8	\$000	Each	\$
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Production Engineering Quality Assurance Acceptance Testing		- 4						990			184 35		
Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharde								0.4 4.4					
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TOTAL								11231		783.39	12057		709.24
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and Type Semble and Pack TBS TBS TPS TPS TPS TPS TPS C/FP N/A TPS Plant Procured N/A N/A N/A ***Complete Round	Contract Method	Location of PCO Aware	Award Date Date of First	irst QTY	Unit Cost	Specs Avail	Date R Revsn	RFP issue Date
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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			j		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature.	ıre:					
ā	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					ROCKET HYD	ROCKET HYDRA 70 SIG PRAC M274 (E37337)	274 (E37337)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	937	172	46		45	154	136	136	136	136		1898
Gross Cost	295.6	75.7	21.4	0.0	25.2	6'5'	66.2	67.4	68.6	69.5	0.0	765.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	295.6	75.7	21.4	0.0	25.2	75.9	66.2	67.4	68.6	69.5	0:0	765.5
Initial Spares												
Total Proc Cost	295.6	75.7	21.4	0.0	25.2	75.9	66.2	67.4	68.6	69.5	0:0	765.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (APACHE, KIOWA WARRIOR, and COBRA) against area targets such as personnel, air defense systems, and materiel. The M423 fuze safe and arming device; and a smoke/flash cartridge containing a mixture of potassium perchlorate and aluminum powder. The M274 with the new MK66 Mod 3 rocket motor with electromagnetic M274 warhead is a smoke/flash signature practice warhead used for pilot/gunner training missions and consists of a cast iron warhead modified with vent holes; and an aluminum nose cap with firing pin, an radiation protection can be fired by all aircraft. It is a key rocket due to its low cost, simple and reliable operation, day and night signature for scoring pilot proficiency, and non-hazardous dud feature which enables usage on new multipurpose range complexes. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. Each pilot must fire live rockets to acquire and maintain attack helicopter gunnery skills. FY 99 procurement supports all training schedules, initial qualification Practice Rocket is safer to use, is cheaper, and has less of an environmental impact than high explosive rockets. At the same time, it allows peacetime training with rockets compatible with the new sterile, training for aviators, and builds a depot level in accordance with the Army's procurement goals. The M274 Signature Practice Rocket is the preferred training munition at all ranges. The M274 Signature instrumented training ranges equipped with advanced sensors.

TYPE CLASSIFICATION DATE:

Exhibit P-40,

Budget Item Justification Sheet

t P-5,	_	Appropriation/ Budget Activity/Serial No:	iget Activity/	Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:		-	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMU Ammunition	UNITION / 1 /		ROCKE	ROCKET HYDRA 70 SIG PRAC M274	PRAC M274				Febr	February 1998
Ammunition	₽		FY 96			FY 97	(50,001)		FY 98			FV 99	
Cost Elements	8	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	oty	UnitCost
AMMINITION HABDIWABE		\$000	×1000	\$	\$000	×1000	€	\$000	×1000	s	\$000	×1000	€>
Load, Assemble and Pack MK90 Prop Grain Complete Round		8383	94 9 9	184.27				9745	45	214.65	71916	154	466.99
SubTotal AMMO Hardware		16777	******			9815		21965			71916		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation		520 23 193 64						2245 55 158			3631		
Industrial Stock Support CAWCF Gain/Loss Surcharge		3067					++1/-	777					
Sub lotal Prod. Support		4581						3235			3705		
COST - Nonrecurring Material Change											300		
SubTotal COST-Nonrecurring			-								300		
		10.00			-				- In the second				
TOTAL		21358		468.86				25200		555.09	75921		492.99

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		Exmont P-5a, Budget Procurement history and Planning	iistory ai	ru Flaming					Fe	February 1998	
Appropriation / Bu	Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	Vomenclature:				
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WBS Cost Elements:	nts.	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	QTY	ost	_		RFP Issue Date
Fiscal Years			and Type			Delivery	Each	8	Now?	Avail	
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FY 96		Lockheed Martin	C/FP	100	Dec-96	Oct-98	45552	184.27			
20		Burlington, VT		Ü.		Eeb.00	45308	21465	\ \ \		70,40
FY 99***		TBS	C/FP	200	Apr-99	Feb-01	154000	466.99	, cs ≺es		Oct-98
MK90 Prop Grain	ries										
FY 96		Alliant Tech Sys (Radford AAP)	SS/CPAF IOC	00	Nov-96	Apr-97	48741	172.00			
		Radford, VA				,			·		
FY 98		TBS	C/FP	201	~	Dec-99	48576	251.56	×es		Oct-97
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Exhibit P-40, Budget Item Justification Sheet	1 / Ammunition			FY 1996		30.2			30.2		30.2			ition Mun
it P-40, I): MMUNITION /			FY 1995		39.7			39.7		39.7			s Demol
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	TotalCost Qty UnitCost \$5000 x1000 \$ 11302 4260 0.20 614 76 8.06 2975 912 3.26 1101 54 20.39 498 15 33.20 1496 175 8.55 981 288 3.41 13.00 93 10 9.30 57 4 14.25	000000	\$000 x 8774 8774 1712 503 1542 1032 49	777 277 277 277 277 277 277 277 277 277	UnitCost Tot \$ 968.00 1.79 1.79 3.73 3.73 5.00	12971 12971 1615 1602 1356 659 100	A 14922 14922 166 10	UnitCost \$ 37.60 0.11	TotalCost \$000	F Y 99	to Cticl
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Appropriation / Budget Activity/Serial No:	tivity/Serial No.					P-1 Item Nomenclature:	nclature:					
PROCUR	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1	/ Ammunition				SELEC	TIVE LTWT A	TTACK MUNIT	SELECTIVE LTWT ATTACK MUNITION (SOF) (E52000)	52000)	
Program Elements for Code B Items.	de B Items:			Code:	Other Related Program Elements:	Program Eleme	ants:					
	Prior Years FY 1995	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002		FY 2003 o Complet Total Prog	Total Prog
Proc Qty				6					5	6		23
Gross Cost	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	9.5	9.4	0.0	27.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	9.5	9.4	0.0	27.7
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	8.8	0.0	0:0	0.0	0.0	9.5	9.4	0.0	27.7
Flyaway U/C												
Wpn Sys Proc U/C												

operation. The Warhead is an explosively formed penetrator (EFP) to provide a capability to engage and defeat targets from 5 inches to 25 ft. It's 4 modes are bottom attack (magnetic signature), side/top attack (infrared signature), timed The Army SLAM is a ligthweight (2.2lbs), compact hand emplaced munition offering the user multiple modes of demolition and operator-initiated command detonation.

DESCRIPTION:

JUSTIFICATION:

The Army SLAM program is a modified NDI. The SLAM was developed for US SOCOM. This device will be modified by including a self-destruct feature in all electronic modes of operation. The FY97 procurement quantity supports the Army War Reserve Requirement.

Type Classification Date: September 1996

Acquisition Manager: Project Manager, Mines Countermine and Demolitions (PM-MCD)

it P-5, \		Appropriation	γ Budge	Appropriation/ Budget Activity/Serial No:	al No:	P.1 Line	P-1 Line Item Nomenclature:	clature:		Weapon System Type:	stem Type:	Date	
Ammo Cost Analysis		PROC	PROCUREMENT OF JUNITION / 1 / Ammili	PROCUREMENT OF AMMUNITION / 1 / Ammunition		SELE	SELECTIVE LTWT ATTACK	I ATTACK				Febru	February 1998
Ammunition	Ω		FY 96		-	F	WONTION (SOF) (ESZOU)	1	FY 98			FY 99	
Cost Elements		TotalCost	Q Çţ	UnitCost	TotalCost	aty	UnitCost	TotalCost	οţ	UnitCost	TotalCost	à	UnitCost
	П	\$000	Each	\$	\$000	-		\$000		\$	\$000	Each	\$
Awiwowi i ion hakbwake 1.Load, Assemble, and Pack- Sele Attack Munition M4 - Complete 2. Trainer Kits (M299)	а ∢				7175	9064	792						
Oscubred OMMA lefoTdus													
Production Support Costs 1. Production Engineering					673								
2. Quality Assurance 3. Acceptance Testing					270 253								
SubTotal Prod. Support					1096			A Marine and A Marine and A Marine and A Marine and A Marine and A Marine and A Marine and A Marine and A Mari	. 148				

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TOTAL					8774	9064	8968					<u></u>	
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Exhibit P-5a, E	Exhibit P-5a, Budget Procurement History and Planning	Histor	ry and Planning					Date: Feb	: February 1998	88
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /		Weapon Sy	Weapon System Type:		P-1 Line It	P-1 Line Item Nomenclature:	2-1 Line Item Nomenclature:	Š		000
Ammunition . ABS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award	Date of	γTΩ	Unit Cost	Specs	Date	Issue
Fiscal Years		Method and Type		Cate	Pirst Delivery	Each		Avail Now?	Kevsn Avail	
ctable Ltwt Attack Munition M4	Alliant Tech Systems, MN		Picatinny Arsenal, NJ	76-Inf	Sep-98	9064	792			
Trainer Kits (M299) FY 97	Alliant Tech Systems, MN	C/FP	Picatinny Arsenal, NJ Jul-97	Jul-97	Jul-98	285	1765 Yes	Yes		
REMARK Contract Awarded for both Special Operations Forces (SOF) and U.S. Army Requirements. U.S. Army Delivery	cial Operations Forces (SC	OF) and t	J.S. Army Requireme	nts. U.S	. Army I	Jelivery				

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	Exhib	Exhibit P-40, Budget Item Justification Sheet	3udget It	em Justi	ification	Sheet		Dale.	_	February 1998		
Appropriation / Budget Activity/Serial No.	tivity/Serial No					P-1 Item Nomenclature:	nclature:					
PROCUR	EMENT OF AN	PROCUREMENT OF AMMUNITION / 1 / Ammunition	/ Ammunition				CHG	DEMO BLK C	OMP C-4 1-1/4	CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)	1601)	
Program Elements for Code B Items:	de B Items:			Code:	Other Related	Other Related Program Elements:	ents:					
				¥	į							
	Prior Years	Prior Years FY 1995	FY 1996	FY 1997	FY 1998	FY 1998 FY 1999	FY 2000	FY 2001	FY 2002		FY 2003 o Complet Total Prog	Total Prog
Proc Qty	4634	2132	619		345							7730
Gross Cost	21.5	21.9	11.3	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	67.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	21.5	21.9	11.3	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0:0	67.7
Initial Spares												
Total Proc Cost	21.5	21.9	11.3	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0:0	67.7
Flyaway U/C												
Wpn Sys Proc U/C												-
DESCRIPTION:	<u>ا</u>								:			

individual soldier on the object to be destroyed. The explosive may be cut and/or removed from its wrapper and hand The block demolition charge consists of 1-1/4 pounds of composition C4 plastic explosive packed in a mylar-film bag. Pressure sentitive adhesive tape is provided on one of the rectangular surfaces, allowing quick emplacement by the molded into a desired shape suited to the target. Upon detonation, the shock wave destroys the target by cutting, breaching or cratering. This item is Code A, approved for service use.

JUSTIFICATION:

Composition C4 is the primary demolition explosive used by the U.S. Army. This is a training standard item used in both training and combat. Procurement supports annual peacetime training, demilitarization requirements, and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Prior to 1960.

Exhibit P-5, Weapon	Ė	Appropriation/ Budget Activity/Serial No:	/ Budget	Activity/Seria	No:	P-1 Line	P-1 Line Item Nomenclature:	clature:		Weapon System Type:	Г	Date:	
Ammo Cost Analysis		PROC	PROCUREMENT OF	4T OF		양	CHG DEMO BLK COMP C-4 1-	OMP C-4 1-				Febru	February 1998
7	4	AMMUNITION / 1 / Ammunition	4/ L / NC	mmunition			1/4 LB M112 (E50601)	50601)					
Ammunition				_		[⊒			FY 98			FY 99	
Cost Elements	8	TotalCost		UnitCost	TotalCost	o Ç	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
AMMUNITION HARDWARE	I	\$000	×1000	\$	\$000	×1000	\$	000\$	×1000	↔	\$000	×1000	ક્ક
Load, Assemble and Pack Comp C-4 Class 3		2242 6637	619 786	3.62 8.44				1362 9831	345 438	3.95 22.44			
				1								· /#	
SubTotal AMMO Hardware		8879						11193				***************************************	
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		275 12 102 34 377				Value :		1144 28 129 81 396					
SubTotal Prod. Support		2423		<u> </u>				1778				****	
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Exhibit P-5a,	Exhibit P-5a, Budget Procurement History and Planning	t HISTOR	y and Pianning					February 1998	y 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:	stem Type:		o-1 Line It	P-1 Line Item Nomenclature:	iclature:		
Ammunition					CHG DE	MO BLK (CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)	/4 LB M112	(E50601
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΑΤΟ	Unit Cost	Specs Date Avail Revsn	e Issue
Fiscal Years		and Type			Delivery	Each	\$	Now? Avail	=
Load, Assemble and Pack									
FY 96	Martin Marietta (MAAP)	C/FP	201	Aug-96	Feb-97	619040	3.62	Xes	
FY 98	Martin Marietta (MAAP)	C/FP	100	Feb-98	Dec-98	344955	3.95 Yes	Yes	Oct-97
	William, IIN								
Comp C-4 Class 3									
FY 96	Holston Defense (HAAP)	S/CPF IOC	<u> </u>	Aug-96	Jan-97	786181	8.44 Yes	≺es	
FY 98	Holston Defense (HAAP)	S/CPF IOC	200	Feb-98	Oct-98	438093	22.44 Yes	Yes	Oct-97
	Kingsport, TN								<u></u>
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FY 98 / 99 BUDGET PRODUCTION	DUCTIO	NO.	SCHEDIII E	=	ш	<u>-</u>	P-1 Item Nomenclature:	nclatu	re:		3	1	90	Ę		Date:	 60	l				Ĭ	Г
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Load, Assemble and Pack			H	┞	┝	H		┢	L	┢	L	t	╀	İ	╀		t	╁	╀	I	t	╁	Т
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	Exhib	it P-40, E	3udget It	em Justi	Exhibit P-40, Budget Item Justification Sheet	Sheet				February 1998		
Appropriation / Budget Activity/Serial No.	ctivity/Serial No					P-1 Item Nomenclature.	inclature:					
PROCUF	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1	/ Ammunition					CORD DETC	CORD DETONATING TYPE 1 (E54100)	E 1 (E54100)		
Program Elements for Code B Items:	ode B Items:			Code:	Other Related	Other Related Program Elements:	ents:					
				٧								
	Prior Years	Prior Years FY 1995 FY 1996	FY 1996	FY 1997		FY 1998 FY 1999	FY 2000	FY 2001	FY 2002		FY 2003 o Complet Total Prog	Total Prog
Proc Qty	192290		4260		14922	3004						214476
Gross Cost	10.5	0.0	6.0	0.0	1.6	6.0	0.0	0.0	0.0	0.0	0.0	13.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.5	0.0	6.0	0.0	1.6	6.0	0.0	0:0	0.0	0.0	0.0	13.3
Initial Spares												
Total Proc Cost	10.5	0.0	6.0	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	13.3
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:	j											

cord may be used for detonating single or multiple demolition charges. Detonating cord may be initiated by a detonating explosive in a seamless textile tube. The tube is covered with a thin layer of asphault and sheathed in an outer cover of The detonating cord, Type 1, Class E, is the only standard cord used by the Army. It consists of a core of high velocity cord initiator, or electric or non-electric blasting cap. This detonating cord is packed 3/1,000 ft spools per wooden box. plastic coated textile. It has a detonating velocity of not less than 21,000 to 23,000 feet per second. This detonating This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

training, demilitarization requirements, and builds a war reserve inventory in accordance with the Army's procurement This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon Ammo Cost Analysis	Approprie PR AMMUN	priation/ Budget Activi PROCUREMENT OF IUNITION / 1 / Ammur	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	rial No:	P-1 Lin COR	P-1 Line Item Nomenclature: CORD DETONATING TYPE 1 (E54100)	clature: 4G TYPE 1		Weapon System Type:	stem Type:	Date: Febru	le: February 1998
Ammunition	_	FY 96	و		≽			FY 98			FY 99	
Cost Elements co	TotalCost	ost Oty	UnitCost	TotalCost	<u> </u>	UnitCost	TotalCost	Qty	UnitCost	TotalCost	δ	UnitCost
	000\$	×1000	\$	\$000	×1000		\$000			\$000		\$
AMMUNITION HAKDWARE Complete Round Load, Assemble and Pack (FT)	6	677 4260	0 0.16				1394	1394 14922	0.09	294	3004	0.10
Cap Blasting Elec M6										17	_	25.78
									_			
SubTotal AMMO Hardware	29	229					1394			311		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge	<u> </u>	138 8 1 1 4 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1					142 3 16 10 50			<u> </u>		
SubTotal Prod. Support	4	175					221			78		
TOTAL	852	7	0.20		·		51.0 10.0			හි දි		0.17

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item No. 40 Page 14 of 25 300

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	Ž	NOIT	SCF	EDU	Щ		<u> </u>	P-1 Item Nomenciature: CORD DETON	ORD DETONATING TYPE 1 (E54100)	DETC	Š.	<u>S</u>	ΓYPE	 m	5410	6							Feb	ruary	February 1998	m		
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	Exhib	it P-40, I	Exhibit P-40, Budget Item Justification Sheet	em Just	ification	Sheet				February 1998	_	
Appropriation / Budget Activity/Serial No:	ctivity/Serial No					P-1 Item Nomenclature:	enclature;					
PROCUF	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1	/ Ammunition				CAP BLA	STING NON-E	CAP BLASTING NON-ELEC, W/30 FT SHOCK TUB (E81302)	SHOCK TUB (E81302)	•
Program Elements for Code B Items:	ode B Items:			Code:	Other Related	Other Related Program Elements:	ents:					
	Prior Years	Prior Years FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2000 FY 2001 FY 2002		FY 2003 to Complet Total Prod	Total Prod
Proc Qty	110	30	912			304	204	204	204			2172
Gross Cost	0.7	0.4	3.0	0.0	0.0	1.2	8.0	8.0	6.0	6.0	0.0	8.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.7	0.4	3.0	0.0	0.0	1.2	8.0	9.0	6.0	6.0	0.0	8.7
Initial Spares												
Total Proc Cost	0.7	0.4	3.0	0.0	0.0	1.2	0.8	0.8	6.0	6.0	0.0	8.7
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION	ا خ											

branch firing signals to and initiate explosive and demolition devices. This item has not transitioned to the SMCA and will A nondelay military sized blasting cap which is factory crimped to 30ft. of shock tube. This component will be used to be procured at actual cost.

JUSTIFICATION:

commercial use for twenty years. The new components are lighter, more reliable and easier to use. In addition, because MDI is a set of components which non-electrically initiates explosives using "shock tube" technology which has been in of a highly competitive commercial market, MDI will be lower in cost than the present components such as M6 and M7 blasting caps, det cord, etc.

Type Classification Date: September 1993-Generic Type Classification Date: April 1996 - Standard Acquisition Manager: Project Manager, Mines Countermine and Demolitions (PM-MCD)

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Item No. 40 Page 1	303

Exhibit P-5, Weapon	È	Appropriation	/ Budget	Appropriation/ Budget Activity/Serial No:	Γ	P-1 Line	P-1 Line Item Nomenclature:	clature:		Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	UREMER ON / 1 / A	AT OF		CAP	CAP BLASTING NON-ELEC,	ON-ELEC,				Febru	February 1998
Ammunition	₽		FY 96			FY	NOOLS 1	JD (E013UZ)	FY 98			FY 99	
·o	8	TotalCost	a _{ty}	UnitCost	TotalCost	Qty	UnitCost	TotalCost	ofy.	UnitCost	TotalCost	oty	UnitCost
	П	\$000	×1000	€	\$000	×1000	\$	000\$	×1000	\$	\$000	×1000	87
HARDWARE 1. Cap, Blasting: Non-electric, with 30ft. shock tube, M11	-	2975	912	3.26							1094	304	3.60
SUBTOTAL		2975									1094		
PRODUCTION SUPPORT 1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING									-		72 36 24		
SUBTOTAL											132		
					· ·	·							
TOTAL		2975	912	3.26					<u></u> -		1226	304	4.03

Exhibit P-5a, E	Exhibit P-5a, Budget Procurement History and Planning	t Histor	ry and Planning					Date: Febr	e: February 1998	g
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition.		Weapon System Type:	stem Type:		P-1 Line Item Nomenclature: CAP BLASTING NON-EL (E8*	em Nomen ASTING N	I Line Item Nomenclature: CAP BLASTING NON-ELEC, W/30 FT SHOCK TUB (E81302)	/30 FT S	HOCKT	GB.
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	ΩT. ×1000		Specs [Avail R	Date Revsn Avail	enssl
Cap, Blasting: Non-elec, w/30ft Shock Tube, M11 FY 96 FY 99 FY 99 TBS	Bickford, CT	Option C.FP C.FP	ARDEC ARDEC	Mar-96 Sep-96 Mar-99		300	3.60			
REMARK FY96 PROCUREMENT CONSISTS OF EXERCISE OF MAXIMUM OPTION FOR 300,000 AND NEW PROCUREMENT FOR THE BALANCE OF 612,000	ISTS OF EXERCISE OF M 00	1AXIMUN	OPTION FOR 300,0	OO AND	NEW Pa	Socur	EMENT			

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Exhibit P-21, Production Schedule

Fig. 2 Proc. CCEP But Calendar Year 39 Calendar Year 30 Ca	FY 98 / 99 BUDGET PRO	2	OE OE	S	DUCTION SCHEDULE	JOLE L		;	1										;	•							
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Appropriation / Budget Activity/Serial No:	ctivity/Serial No	٠				P-1 Item Nomenclature:	nclature:					
PROCUREMI	PROCUREMENT OF AMMUNITION /Ammunition / 41472790	NITION /Amm	ınition / 414727	260			Cap l	Blasting, Non-£	Cap Blasting, Non-Electric, 20 Minute Delay (E81314)	ute Delay (E81	314)	
Program Elements for Code B Items:	ode B Items:			Code:	Other Related	Other Related Program Elements:	ants:					
	Prior Years	Prior Years FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2001 FY 2002	FY 2003	FY 2003 o Complet Total Prog	Total Prog
Proc Qty						156	114	114	114	114		612
Gross Cost	0.0	0.0	0.0	0.0	0.0	2.2	1.6	1.6	1.6	1.6	0.0	8.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	2.2	1.6	1.6	1.6	1.6	0.0	8.5
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	2.2	1.6	1.6	1.6	1.6	0.0	8.5
Flyaway U/C												
Wpn Sys Proc U/C												

branch firing signals to and initiate explosive and demolition devices. This item has not transitioned to the SMCA and will A nondelay military sized blasting cap which is factory crimped to 30 ft of time fuse. This component will be used to be procured at actual cost.

DESCRIPTION:

JUSTIFICATION:

commercial use for twenty years. The new components are lighter, more reliable and easier to use. In addition, because MDI is a set of components which non-electrically initiates explosives using "shock tube" technology which has been in of a highly competitive commercial market, MDI will be lower in cost than the present components such as M6 and M7 blasting caps, det cord, etc.

Type Classification Date: February 1998 -Standard

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	n/ Bud	get Activi	ty/Serial		P-1 Line	P-1 Line Item Nomenclature:	clature:		Weapon System Type:		Date:	
Ammo Cost Analysis		PRO	CUREN	PROCUREMENT OF AMMINITION (Amministration)	Ş		Cap B	Cap Blasting, Non-Electric, 20	Electric, 20				Febru	February 1998
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HAKDWAKE 1. Cap Blasting: Non-electric,30 min delay) 	elay										1716	156	11.00
SUBTOTAL												1716		
PRODUCTION SUPPORT 1. PRODUCTION ENGINEERING 2. QUALITY ASSURANCE 3. ACCEPTANCE TESTING												225 65 180		
SUBTOTAL												245		
TOTAL	***											2186	156	14.01
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Exhibit P-5a	Exhibit P-5a Budget Procurement History and Planning	Histor	ry and Planning					Date:	0007
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Appropriation / Budget Activity/Serial No. PROCUREMENT OF AMMUNITION /Ammunition / 41472790		weapon oy	Selli Type.		Cap Bla	em Nomer sting, Non-	8	linute Delay (E81314)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ατγ	Unit Cost	Specs Date Avail Revsn	Issue
Fiscal Years		and Type			Delivery	×1000	\$	Now? Avail	_
1. Cap Blasting: Non-elec,30 min delay, XM18 FY 99	(M18 TBS	C/FP	ARDEC	Mar-99	Oct-99	156	11.00	8	Oct-98
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Exhibit P-21, Production Schedule

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								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific						February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature:	'ure:					
łd.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					GREN	GRENADES, ALL TYPES (E34000)	34000)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	539.0	5.0	23.9	4.2	14.3	21.4	20.6	21.7	22.0	24.4	0.0	696.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	539.0	5.0	23.9	4.2	14.3	21.4	20.6	21.7	22.0	24.4	0.0	696.5
Initial Spares												
Total Proc Cost	539.0	5.0	23.9	4.2	14.3	21.4	20.6	21.7	22.0	24.4	0.0	696.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:		}										
This hudget line includes Grenades ATT TVDES	Judge Grenad	QVT IIVD	Ú									
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it P-5,	•	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /	get Activity/S IT OF AMMU	Serial No: INITION / 1 /		2.1 Line Item GRENA	P-1 Line Item Nomenclature: GRENADES, ALL TYPES (E34000)	S (E34000)	<u>></u>	Weapon System Type:		Date: Febru	February 1998
Ammo cost Analysis	7	4	Ammunition		·								
Ammunition	Ō		FY 96		,	FY 97			FΥ 98			FY 99	
S	8	TotalCost	aty	UnitCost	+	Ωty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
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FUZE GRENADE HAND PRAC M228 GRENADE HAND SMOKE YELLOW M18		10491	3330	3.15 32.20	-			2401	75	31.89	1931 4340	130	2.20 33.27
GRENADE HAND SMOKE VIOLET M18		570		1	1		1	1346	42	31.90	2764	73	37.61
GRENADE HAND SMOKE TNG M83		11587	320	33.28	4150	122	34.07	8963	232	38.70	8641	207	30.72
GRENADE UNIONE SORFEINING LING MISS								1599	78		3		9
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GRENADE HAND SMOKE GREEN M18											1892		47.30
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		Exhibit P-40, Budget Item	0, Budget It		Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	rial No.					P-1 Item Nomenclature:	rre:					
PR	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	munition					FUZE GRENA	FUZE GRENADE HAND PRAC M228 (E31900)	228 (E31900)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	ram Elements:						
				A	_							
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prod
Proc Qty	73709	1328	3330			808	2135	2135	2135	2135		87715
Gross Cost	61.7	3.9	10.5	0.0	0:0	1.9	5.1	5.1	5.2	5.2	0.0	98.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.7	3.9	10.5	0:0	0.0	1.9	5.1	5.1	5.2	5.2	0.0	98.6
Initial Spares												
Total Proc Cost	61.7	3.9	10.5	0.0	0.0	1.9	5.1	5.1	5.2	5.2	0.0	98.6
Fiyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The M228 fuze is a pyrotechnic delay-igniting fuze used with the M69 delay practice hand grenade. It is used by the individual soldier for training purposes. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	¥	Appropriation/ Budget Activity/Serial No.	get Activity/s	Serial No.		P-1 Line Iter	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	IT OF AMMU mmunition	/ t / NOILLING		FUZEG	FUZE GRENADE HAND PRAC M228 (E31900)	PRAC M228				Lebru	February 1998
Amminition	₽		FY 96			FY 97			FY 98			FY 99	
s	8	ايبا	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	+,	Qty	UnitCost
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AMMUNITION HAKDWAKE Complete Round		8239	3330	2.47							1777	808	2.20
			**************************************			· · · · · · · · · · · · · · · · · · ·							
SubTotal AMMO Hardware		8239									17771		
Production Support Costs Production Engineering Quality Assurance		. 255 12									118		
Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		31 353 1506									36		
SubTotal Prod. Support		2252									154		
TOTAL		10491	7	ы. С							1931		2.39

Exhibit I	Exhibit P-5a, Budget Procurement History and Planning	listory aı	nd Planning					Date:	February 1008	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	m Type:		P-1 Line Item Nomenclature:	Nomenclature			oldaly 198	2
PROCUREMENT OF AMMUNITION / 1 / Ammunition						FUZE GREN	FUZE GRENADE HAND PRAC M228 (E31900)	. M228 (E31	(006)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΛTΩ	Unit Cost	Specs Avail	Date F Revsn	RFP issue Date
Fiscal Years		and Type			Delivery	×1000	s		Avail	
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REMARKS: TBS - To Be Selected		;								

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	PROCUREMENT OF AMMUNITION / 1 / Ammunition	WMUNITION / 1 / An	nmunition					GRENADE HAI	GRENADE HAND SMOKE YELLOW M18 (E34002)	V M18 (E34002)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements	ram Elements:						
				A								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1897		40		75	130	106	106	106	106		2566
Gross Cost	29.6	0.0	1.3	0.0	2.4	4.3	2.7	2.7	2.7	2.8	0.0	48.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	29.6	0.0	1.3	0.0	2.4	4.3	2.7	2.7	2.7	2.8	0:0	48.5
Initial Spares												
Total Proc Cost	29.6	0.0	1.3	0.0	2.4	4.3	2.7	2.7	2.7	2.8	0.0	48.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
The M18 Yellow Smoke Hand Grenade is used for ground to air or ground to ground signaling. Each grenade emits smoke for approximately 50 to 90 seconds. The	oke Hand G	renade is us	ed for ground	1 to air or gr	ound to grou	nd signaling.	Each gren	ade emits sn	noke for app	roximately 5	0 to 90 secor	ds. The
body is made of thin sheet metal and is filled with yellow smoke composition. The filler is topped with a starter mixture utilizing the M201A1 fuze. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.	n sheet metal e use. This it	l and is filled em will be p	with yellow s rocured as a	smoke comp ctual cost be	oosition. The eginning in F	filler is toppi Y 99.	ed with a sta	arter mixture	utilizing the	M201A1 fuz	e. This item	s Code A,
JUSTIFICATION:												
This is a training standard item used in both training and combat. accordance with the Army's procurement goals.	andard item u • Army's proc	sed in both urement go	training and als.		99 procuren	nent support:	s annual pea	acetime train	ing and buik	ts a war rese	FY 99 procurement supports annual peacetime training and builds a war reserve inventory in	Έ
TYPE CLASSIFICATION DATE:	TION DATE:											
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February 1998

Exhibit P-40, Budget Item Justification Sheet

98			UnitCost	\$	24.36					33.27
February 1998		6			ıΩ			··········	· ·	
Date: Fe		FY 99	Qty	Each	130445					
Type:			TotalCost	000\$	3177	·	3177	1099	1163	. 4340
Weapon System Type:			UnitCost	\$	27.52					31.89
		FY 98	aty	Each	75287 61					
YELLOW M18			TotalCost	000\$	2072		2072	212 5 24 24 15	329	2401
P-1 Line Item Nomenclature: GRENADE HAND SMOKE YELLOW M18	(E34002)		UnitCost	\$						
P-1 Line Ite GRENAL		FY 97	aty	Each						
			TotalCost	\$000						
/Serial No: IUNITION / 1 /			UnitCost	\$	25.29 7.97					32.20
dget Activity NT OF AMN	Ammunition	FY 96	Qty	Each	40059					
Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 /			TotalCost	\$000	1013		1013	£ - 5 4 4	185	1290
	1	₽	G	1						
Exhibit P-5, Weapon Ammo Cost Analysis	ľ	Ammunition	Cost Elements	MAIINITION	Awinion i ion hakbwake Load, Assemble and Pack Nitrocellulose WW GR D (LB) Complete Round		SubTotal AMMO Hardware	Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support	CAWCF Gain/Loss Surcharge SubTotal Prod. Support	TOTAL

Exhibit P	Exhibit P-5a. Budget Procurement History and Planning	listory ar	nd Planning				-	Care.	February 1998	æ
Anneoniation / Budnet Activity/Sarial No.		Weapon System Type.	m Type.		2.1 Line Item N	P-1 Line Item Nomenclature:			í	T
PROCUREMENT OF AMMUNITION / 1 / Ammunition					0	SRENADE HAN	GRENADE HAND SMOKE YELLOW M18 (E34002)	OW M18 (E	34002)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ату	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	es.	Now?	Avail	
l nad. Assemble and Pack										
FY 96	Pine Bluff Arsenal	SS/FP	100	May-96	Apr-97	40059	25.29			
FY 98	Pine Bluff Arsenal	SS/FP	00	Mar-98	Apr-99	75287	27.52	Yes	<u>-</u>	Oct-97
FY 99***	rine Bluff, AR Pine Bluff Arsenal Pine Bluff, AR	SS/FP	100	Mar-99	Apr-00	130445	24.36	Yes		Oct-98
Nitrocellulose WW GR D (LB)						<u> </u>				
FY 96	Alliant Tech Sys (Radford AAP) Radford, VA	SS/CPAF 10C	200	Jan-96	Mar-97	ဗ္ဗ	7.97			
FY 98	Alliant Tech Sys (Radford AAP)	SS/CPAF IOC	00	Jan-98	Mar-99	61	4.04	Yes		Oct-97
FY 99	Radrord, VA Plant Procured	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
REMARKS: ***Complete Round									1	

							P-1 Item Nomenclature:		ĺ	l	l	l	l	l		Date:			I	l	I	l	ſ
FY 98 / 99 BUDGET PRODUCTION SCHEDULE	UCT	ON SC	HEDUL				GREN	GRENADE HAND SMOKE YELLOW M18 (E34002)	D SMOK	E YELL	W M1	(E340)	12)						n.	February 1998	866		
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		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature	ية.					
o.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	ımunition				i	GRENADE HAI	GRENADE HAND SMOKE VIO! ET M18 (E34004)	MIR/FRANCA		
Program Elements for Gode B Items	. Sud								is omore work	W10 (E34004)		
	Ž.			Code	Other Related Program Elements:	ram Elements:						
				∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	EV 2003	To	1
Proc Qty	1002				42	73	5.4	27		2007	and model	rotal Prog
400000000000000000000000000000000000000	2,7	3	3			2	5	ŧ,	90	24		1333
Gross Cost	0.4.0	0.0	9.0	0.0	1.3	2.8	1.4	4.1	1.5	1.5	0.0	24.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.0	0.0	9.0	0.0	1.3	2.8	1.4	14	7.	٠	6	245
Initial Spares									2	2	20	2
Total Proc Cost	14.0	0.0	9.0	0.0	1.3	2.8	4.	14	4	η,	6	245
Flyaway U/C										?	0.0	
Wpn Sys Proc U/C												
DESCRIPTION:												

body is made of thin sheet metal and is filled with violet smoke composition. The filler is topped with a starter mixture utilizing the M201A1 fuze. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99. The M18 Violet Smoke Hand Grenade is used for ground to air or ground to ground signaling. Each grenade emits smoke for approximately 50 to 90 seconds. The

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

	Ť	Appropriation/ Budget Activity/Serial No:	dget Activit	//Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:		<u>>_</u>	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMMI Ammunition	NONTION / 1 /	-	GRENAL	GRENADE HAND SMOKE VIOLET MT8 (E34004)	VIOLE I MT8				Legit	rebruary 1996
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
s	8	TotalCost	oty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
	H	\$000	Each	છ	\$000	Each	ક્ક	000\$	Each	\$	000\$	Each	es.
AMMUNITION HARDWARE Load, Assemble and Pack Nitrocellulose WW GR D (LB)								1161	42190 34	27.53 4.04	1845	73499	25.11
													,,,
SubTotal AMMO Hardware								1161			0445 C		
Production Support Costs Production Engineering Quality Assurance								119			882		
Acceptaire Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge								2 α C ₂ =			37		
SubTotal Prod. Support								185			919		
COST - Nonrecurring: Materiel Change		570											
SubTotal COST-Nonrecurring		570											
TOTAL		1140						1346		31.90	2764		37.61

. Date:		P-1 Line Item Nomenclature;	GRENADE HAND SMOKE VIOLET M18 (E34004)	Location of PCO Award Date Date of First QTY Unit Cost Specs Date RFP Issue	Now? Avail		Mar-98 Apr-99 42190 27.53 Yes Oct-97	Mar-99 Apr-00 73499 25.11 Yes Oct-98		Jan-98 Mar-99 34 4.04 Yes Oct-97	N/A N/A N/A N/A N/A	
Exhibit P-5a Budget Procurement History and Diaming		Weapon System Type:		Contractor and Location Contract	and Type		Pine Bluff Arsenal SS/FP Pine Bluff, AR	Pine Bluff Arsenal SS/FP Pine Bluff, AR		Alliant Tech Sys (Radford AAP) SS/CPAF IOC	Plant Procured	Pu
	American (D. dent A section (D. control of the Cont	Appropriation / Budget Activity/Serial No:	PROCUREMENT OF AMMUNITION / 1 / Ammunition	WBS Cost Elements:	Fiscal Years	Load, Assemble and Pack	FY 98	下/ 99***	Nitrocellulose WW GR D (LB)	FY 98	FY 99	REMARKS: ***Complete Round

FY 98 / 99 BUDGET PRODUCTION SCHEDULE	[일	TION SC	HEDU					GRENAL	الا	GRENADE HAND SMOKE VIOLET M18 (E34004)	DE H	AND S	MOKE	NIOL	ET M1	18 (E3.	1004)									February 1998	гу 199	80		
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NAME / LOCATION		N.	1-6	1-8-5	MAX.	۵	_	_	NITIAL		H	╀	9	3	L	9	3	L	2			19		Gen	ades	produc	ed at	Grenades produced at Pine Bluff.	<u> </u>	
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								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justifica	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No.	rial No:					P-1 Item Nomenclature:	Jre:					
Ā	PROCUREMENT OF AMMUNITION / 1 / Ammunition	#MUNITION / 1 / Am	munition					GRENADE H	GRENADE HAND SMOKE TNG M83 (E69300)	183 (E69300)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements.	am Elements.						
				٧								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			350	122	232	207	211	212	212	213		1759
Gross Cost	0.0	0.0	11.6	4.2	0.6	8.6	6.3	6.4	6.4	6.6	0:0	59.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	11.6	4.2	9.0	8.6	6.3	6.4	6.4	6.6	0.0	59.1
Initial Spares												
Total Proc Cost	0.0	0.0	11.6	4.2	9.0	8.6	6.3	6.4	6.4	6.6	0.0	59.1
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The M83 hand grenade contains approximately 1 pound of environmentally acceptable smoke mixture. The smoke mixture is initiated by a pyrotechnic delay-igniting training grenade is deployed in a similar manner as the M8 series of service smoke grenades. It is used by the individual soldier in squad, company, and battalion fuze. After initiation, there is a 3 second delay after which a dense smoke cloud is produced to to conceal troop, vehicle, or other march movements. The M83 units. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. This grenade is urgently needed to replace the current M8 HC filled munition with a training safe version to reduce the hazard of troop exposure carcinogenic HC smoke. FY 99 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

		Appropriation/ Budget Activity/Serial No.	dget Activity/.	Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:		ĺ	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMONITION / 1 / Ammunition	Ammunition	/ L / NOI I NO		GRENA	GRENADE HAND SMOKE TNG M83	(E TNG M83				Febr	February 1998
Ammunition	₽		FY 96			FY 97	(00000=)		FY 98			FY 99	T
Cost Elements	CD	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	ofy.	UnitCost	TotalCost	oţć.	UnitCost
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SubTotal AMMO Hardware		10341			3377	****		7735			5925		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		614 15 123 41 453			154 37 32 134 144			790 19 89 56 274			2595		
SubTotal Prod. Support		1246			773			1228		-	2716		
TOTAL		11587	100	33.13	4150	,	34.07	8963		38.70	8641		41.72

		7-11						Date:		
	Exhibit P-5a, Budget Procurement History and Planning	istory an	id Planning					Fe	February 1998	8
Appropriation / Budget Activity/Serial No:		Weapon System Type:	n Type:		2.1 Line Item I	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						GRENADE	GRENADE HAND SMOKE TNG M83 (E69300)	3 M83 (E69	(008)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date Date of First	Date of First	ΑΤΦ	Unit Cost	Specs Avail	Date F Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$		Avail	
l nad Accombia and Dank										
FY 96	Pine Bluff Arsenal	SS/FP	20	Mar-96	Oct-96	349750	29.56			
	Pine Bluff, AR									-
FY 97***	Pine Bluff Arsenal	SS/FP	100	Mar-97	Apr-98	121808	27.73	Xes		Dec-96
	Pine Bluff, AR									
FY 98	Pine Bluff Arsenal	SS/FP	. 001	Mar-98	Apr-99	231594	33.39	Xes		Oct-97
	Pine Bluff, AR									
FY 99***	Pine Bluff Arsenal	SS/FP	100	Mar-99	Apr-00	207133	28.61	×es		Oct-98
	Pine Bluff, AR				****					
Nitrocellulose WW GR D (LB)										
FY 96	Alliant Tech Sys (Radford AAP)	SS/CPAF 10C	00	Jan-96	Mar-96	382	76.7	≺es		
	Radford, VA									
FY 97	Plant Procured	N/A N/A	N/A	N/A	A/N	N/A	N/A	Α Α		A/N
FY 98	Alliant Tech Sys (Radford AAP)	SS/CPAF	00	Jan-98	Mar-99	255	40.4			Oct-97
	Radford, VA									
FY 99	Plant Procured	ΑN	N/A	N/A	A/N	A/A	N/A	N/A		N/A
REMARKS: TBS - To Be Selected										

***Complete Round

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		Exhibit P-4	10, Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No. PROCUR	Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	WMUNITION / 1 / An	nmunition			P-1 Item Nomenclature.	ture:	Nois	SIGNALS, ALL TYPES (E46900)	46900)		
Program Elements for Code B Items:	ems.			Code:	Other Related Program Elements:	jram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												,
Gross Cost	306.8	0.7	17.8	1.3	7.7	13.0	13.6	15.3	13.9	14.0	0.0	404.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	306.8	2.0	17.8	1.3	7.7	13.0	13.6	15.3	13.9	14.0	0.0	404.1
Initial Spares												
Total Proc Cost	306.8	0.7	17.8	1.3	7.7	13.0	13.6	15.3	13.9	14.0	0.0	404.1
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
This budget line includes Signals All TYPES	ludes Signals	ALI TYPES						-				
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February 1998		UnitCost	ક્ર	417.00 40.71 18.41 49.63 42.35	
Date: Febr	FY 99	ģ	Each	17000 51533 14810 22669	
		TotalCost	\$000	2293 2293 735 960	12985
Weapon System Type.		UnitCost	\$	406.00 41.01 30.29	
	FY 98	Qty	Each		
(E46900)		TotalCost	\$000	5160 1763 763	7686
P-1 Line Item Nomenclature: SIGNALS, ALL TYPES (E46900)		UnitCost	\$	36.82 20.69 38.79	
P.1 Line Iter	FY 97	aty	Each		
		TotalCost	\$000	354 354 318	1292
/Serial No: IUNITION / 1 /		UnitCost	÷		
dget Activity, ENT OF AMM Ammunition	FY 96	à	Each	39988 39988 32501 32501	
Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		TotalCost	\$000	2652 2652 1 506 2957	17798
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Exhibit P-5, Weapon Ammo Cost Analysis	Amminition	Cost Elements		SMOKE POT PRACTICE M8 SIGNAL ILLUM GND WS PARA M127A1 FLARE SURFACE TRIP M49 SERIES SIGNAL SMOKE & ILLUM MK 124 MOD 0 SIGNAL ILLUM GND WS CLUSTER M159 SIGNAL ILLUM GRD GS CLUSTER M125A1 SIGNAL KIT PERSONNEL DISTRESS RED	TOTAL

		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	rial No:					P-1 Item Nomenclature:	ïe:					
ă	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Arr	munition					SMOKE	SMOKE POT PRACTICE M8 (E62900)	(E62900)	٠	
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
				æ								-
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			23		13	17	17	18	17	17		122
Gross Cost	148.0	0.0	8.9	0.0	5.2	6.9	8.8	7.3	7.0	7.1	0.0	197.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	148.0	0.0	8.9	0.0	5.2	6.9	6.8	7.3	7.0	7.1	0.0	197.2
Initial Spares												
Total Proc Cost	148.0	0.0	8.9	0.0	5.2	6.9	6.8	7.3	7.0	7.1	0.0	197.2
Flyaway U/C								i				
Wpn Sys Proc U/C												
DESCRIPTION:												

The M8 Smoke Pot is a five-gallon metal pail containing about 25 pounds of environmentally acceptable smoke mixture. It is initiated by a pyrotechnic delay igniting fuze. After ignition, about a 25 second delay, a dense smoke cloud is produced for screening purposes to conceal troop, vehicle, or other march movements. It is deployed in a similar manner as the service smoke pots, M4 series and M5. It is used by the individual soldier in squad, company and batallion units. This item is code B, not approved for service use. This item will be procured as actual cost beginning in FY99.

JUSTIFICATION:

This training pot is urgently needed to replace the current M4A2 HC filled munition with a training munition with a reduced hazard for troops exposed during training. This is a Materiel Change program number 1-88-09-7331.

it P-5,		Appropriation/ Budget Activity/Serial No:	iget Activity/	Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature:			Weanon System Tuno	, and		
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	NT OF AMMI Ammunition	11/NOILING		SMOKE	SMOKE POT PRACTICE M8 (E62900)	M8 (E62900)		mate to make to	9,000	Date:	February 1998
	₽		FY 96			FY 97			EV 98				
Cost Elements	8	TotalCost	Qty	UnitCost	TotalCost	à ŏ	UnitCost	TotalCost	2			ξ 2	
AMMUNITION HARDWARE		\$000	Each	ક્ક	\$000	Each	\$	\$000	Each	Unicost	otalCost	Oty	UnitCost
Load, Assemble, and Pack Chemicals Metal Parts		2728 2837 2649	21344 22198 22198	127.81 127.80 119.34				1661 1648 1537	12500 12700 12700	134.00 130.00 121.00			147.00 131.00 123.00
SubTotal AMMO Hardware		8214		376				4846		393	6676		401
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge		250 11 92 30 336						45 60 83 83			189 16		*
SubTotal Prod. Support		719	· · · · · · · · · · · · · · · · · · ·	34				314		34	223		65
COST - Nonrecurring													
SubTotal COST-Nonrecurring													
TOTAL		8933		409				5160		427	66 89 9		4

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Exhibit	Exhibit P-5a. Budget Procurement P	listory an	urement History and Planning					Fet	February 1998	18
		Weapon System Type	, Type:		P-1 Line Item Nomenclature:	omenclature:				
Appropriation / Budget Activity/Serial No:		weapon of sicil				SMOKE	SMOKE POT PRACTICE M8 (E62900)	IB (E62900)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Contract		4000	nto of Eiret	λ	Unit Cost	Specs	Date	RFP Issue
WBS Cost Elements:	Contractor and Location	Method	Location of PCU	wald Date	Delivery	- 			Revsn Avail	Cate
Fiscal Years		and Type		1	, and a			╀	<u> </u>	
Load, Assemble, and Pack FY 96	Pine Bluff Arsenal	SS/GOGO CBDCOM	сврсом		Oct-97	21344	128			- · · · -
FY 98	Pine Bluff Arsenal	SS/GOGO CBDCOM	GBDCOM	Jan-99	May-00	16500	147			
FY 99))) j							-	
Chemicals EV 06	Unknown		Pine Bluff Arsenal	3ul-96	76-InC	22198	128			
98	Unknown	C/FP C/FP	Pine Bluff Arsenal Pine Bluff Arsenal		Oct-00	16750	131			
200										
Metal Parts FY 96	Unknown	C/FP	Pine Bluff Arsenal	Jul-96	Jul-97	22198	119			
FY 98 FY 99	Unknown Unknown	C/FP	Pine Bluff Arsenal Pine Bluff Arsenal	96-Inc	Oct-00	16750	123			
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REMARKS:										

Exhibit P-5A, Procurement History and Planning

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		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet					February 1998		
ity/Ser	tty/Serial No:					P-1 Item Nomenclature:	:eJr					
Ŗ	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					SIGNAL ILLUM	SIGNAL ILLUM GND WS PARA M127A1 (E46800)	27A1 (E46800)		
B Items:	15.			Code:	Other Related Program Elements:	am Elements:						
				4								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
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propriation / Budget Activity/Serial No

rogram Elements for Code B Items:

Net Proc (P-1) Initial Spares

ess PY Adv Proc Plus CY Adv Proc

Gross Cost Proc Qty

Fotal Proc Cost

Flyaway U/C

Wpn Sys Proc U/C

DESCRIPTION:

This signal consists of a parachute suspended illuminant assembly, and a rocket motor propulsion assembly contained in a hand-held aluminum launching tube, deployed by the individual soldier. The base of the signal. The burning time is 40 seconds and candlepower is 125,000. Pyrotechnic charge is illuminant composition. Initiation charge, propelling charge, and expelling charge consist of black powder. The length is 10.16 inches and diameter is 1.67 inches. This signal is packed 36 each per wooden box. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

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t P-5,1	_	Appropriation/ Budget Activity/Serial No.	get Activity/.	Serial No:		P-1 Line Ite	P-1 Line Item Nomenclature:		<u>></u>	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	AT OF AMM(UNITION / 1 /		SIGNAL	SIGNAL ILLUM GND WS PARA M127A1	PARA M127A1				Febr	February 1998
Ammunition	₽		FY 96			FY 97	(E4680U)		FY 98			EV 99	
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AMMUNITION HARDWARE Load, Assemble and Pack Box Metal M458		2037	60040 2528	33.94 18.12	293 6	9613 405	30.53 15.12	1484 38	42992 1810	34.51 20.89	1984	51531 2170	38.49 20.42
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Exhibit	Exhibit P-5a, Budget Procurement History and Planning	istory ar	nd Planning					Œ.	February 1998	98
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FY 97	Security Signals Inc.	C/FP	00	Oct-97	Jun-98	9613	30.53	Yes		Jul-97
FY 98	Security Signals Inc.	C/FP	001	Jan-98	Oct-98	42992	34.51	√es		Oct-97
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		Exhibit P-4	Exhibit P-40, Budget Item	em Justifica	Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	Serial No:					P-1 Item Nomenclature:	ure:					
•	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / An	nmunition					FLARE SURF	FLARE SURFACE TRIP M49 SERIES (E49200)	1ES (E49200)		
Program Elements for Code B Items:	tems:			Code:	Other Related Program Elements:	am Elements:						
			:	∢								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	14924			30	25	125	20	41	41	41		15277
Gross Cost	43.4	0.0	0.0	9.0	0.8	2.3	1.0	0.8	8.0	0.8	0.0	50.5
Less PY Adv Proc	٠											
Plus CY Adv Proc												
Net Proc (P-1)	43.4	0.0	0:0	9.0	8.0	2.3	1.0	8.0	8.0	0.8	0.0	50.5
Initial Spares												
Total Proc Cost	43.4	0.0	0.0	9.0	8.0	2.3	1.0	8.0	8.0	9.0	0.0	50.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

The M49 Trip Flare consists of an illuminant assembly, cover loading assembly, and mounting bracket assembly. The M49 is activated by tripping a wire attached to a trigger mechanism. Upon activation, the flare is ignited providing a light intensity of 35,000 candle power for approximately one minute. The M49 is used to provide warning of infiltrating troops. This item is Code A, approved for service use. This item will be procured as actual cost beginning in FY 99.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY 99 procurement supports annual peacetime training and builds a war reserve level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Exhibit P-5, Weapon	_	Appropriation/ Budget Activity/Serial No:	iget Activity.	/Serial No:		P-1 Line Iten	P-1 Line Item Nomenclature:		ľ	Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1 / Ammunition	ENT OF AMM Ammunition	IUNITION / 1 /		FLARE	FLARE SURFACE TRIP M49 SERIES	449 SERIES				Febru	February 1998
Ammunition	₽		FY 96			FY 97	(1-49200)		FY 98			FY 99	
S	8	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	۵ty	UnitCost
	Ħ	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	000\$	Each	\$
AMMUNITION HARDWARE Complete Round		-1,			526	29971	17.54	658	25191	26.14	2199	124537	17.66
SubTotal AMMO Hardware					526			658			2199		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge					27 - 0 S			67 23 53 53			6 1 7		
SubTotal Prod. Support	***				46			105			40		
TOTAL					620		20.69	763		30.29	2293		18.41

Exhibit	Exhibit P-5a. Budget Procurement History and Planning	History a	nd Planning					Date:	!	
		2000	6					_	February 1998	98
Appropriation / Budget Activity/Serial No:		Weapon System Lype:	ım lype:		P-1 Line Item	P-1 Line Item Nomenclature:				
PROCUREMENT OF AMMUNITION / 1 / Ammunition						FLARE SUR	FLARE SURFACE TRIP M49 SERIES (E49200)	ERIES (E	(0026)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΔTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now	Avail	
Complete Round FY 97	Lance Ordnance	C/FP	201	May-97	Feb-98	29971	17.54	≺es		Feb-97
	Mayo, FL			•						
FY 98	Lance Ordnance	C/FP	201	Dec-97	Apr-98	25191	26.14	≺es		Oct-97
FY 99	78S	C/FP	100	Mar-99	May-00	124537	17.66	Yes		Oct-98
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REMARKS: TBS - To Be Selected									1	

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		nibit P-40,	Budget It	Exhibit P-40, Budget Item Justification Sheet	cation She	et .				February 1998		
Appropriation / Budget Activity/Serial No.	y/Serial No:	-				P-1 Item Nomenclature:	dature:					
PROC	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MUNITION / 1 /.	Ammunition					SIMULAT	SIMULATORS, ALL TYPES (E51200)	; (E51200)		
Program Elements for Code B Items:	B items:			Code:	Other Related Program Elements:	ogram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	193.4	9.4	3.3	2.8	4.5	4.7	4.1	6.7	6.9	8.4	0:0	245.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	193.4	9.4	3.3	2.8	4.5	4.7	4.1	7.9	6.9	8.4	0.0	245.4
Initial Spares												
Total Proc Cost	193.4	9.4	3.3	2.8	4.5	4.7	4.1	7.9	6.9	8.4	0.0	245.4
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												
This budget line	includes Sir	nulators A	TYPES									
This budget line includes Simulators ALL TYPES.	includes Sir	nulators A	LL TYPES									
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Exhibit P-5, Weapon	Γ	Appropriation/ Budget Activity/Serial No:	3udget Act	ivity/Serial No:		P-1 Line It	P-1 Line Item Nomenclature:	ure:		Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 1	IENT OF AMINIFION	MUNITION / 1	•	SIMULAT	SIMULATORS, ALL TYPES (E51200)	PES (E51200)				Febr	February 1998
Ammunition	₽		FY 96]·	FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	aty	UnitCost	TotalCost	Ş	UnitCost	TotalCost	Qţ	UnitCost	TotalCost	ą	UnitCost
		000\$	×1000	\$	\$000	×1000	σ	\$000	×1000	8	\$000	×1000	49
SIMULATOR TARGET KILL M26 SIMULATOR TARGET HIT M25 SIMULATOR ANTITANK M27		-			348 849	35	10.07 95.86	333	39 39	15.17 8.54	476 1556		9.05
SIMULATOR PROJ AIRBURST M74 SIMULATOR PROJ GND BURST		2390	308	7.76	1349	256	5.28	307 2517	20 425	15.00 5.92		9	14.58
SIMULATOR HAND GRENADE M116A1 SIMULATOR DIRECT/INDIRECT FIRE		954	233	4.10	221	69	3.20		178	3.59	1- 4	231	3.10
SIMULATOR MAIN TANK GUN XM28											453	318	
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TOTAL		3344			7976			4774			100		
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	Ext	ibit P-40,	Budget It	em Justifi	Exhibit P-40, Budget Item Justification Sheet	eet				February 1998		
Appropriation / Budget Activity/Serial No:	ty/Serial No:					P-1 Item Nomenclature:	:lature:					
PROC	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MUNITION / 1 //	Ammunition				J)	SIMULATOR PRC	SIMULATOR PROJ GND BURST M115A2 (E49700)	4115A2 (E49700	•	
Program Elements for Code B Items:	B Items:			Code:	Other Related Program Elements:	ogram Elements:						
				٧		•						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	6296	338	308	256	425		327	200	200	200		12793
Gross Cost	49.2	2.5	2.4	1.3	2.5	0.1	1.6	2.5	2.5	2.6	0:0	67.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	49.2	2.5	2.4	1.3	2.5	0.1	1.6	2.5	2.5	2.6	0.0	67.2
Initial Spares												
Total Proc Cost	49.2	2.5	2.4	1.3	2.5	0.1	1.6	2.5	2.5	2.6	0.0	67.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

composition in the whistle assembly. The final burning is accomplished by ignition of the photoflash charge effecting flash and a loud report. Dimensions of the M115A1 Simulator: 7.13 inches x 2.33 inches; weight: 3 pounds. This simulator is packed 100 each per wooden box. This item is Code A, approved for service use. This item will be procured as This item simulates battle noises and effects of shell in-flight and ground explosions. The body of the simulator consists of a cylindrical paper tube containing a photoflash and a whistle assembly. The M115A2 simulator is a hand-thrown device actuated by a pullcord igniter. A safety fuze provides a 6 to 10 second delay before igniting the whistle actual cost beginning in FY 99.

JUSTIFICATION:

This is a training unique item; not used in combat. Procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1960

Exhibit P-5, Weapon Ammo Cost Analysis	Αū	Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition	ı/ Budget Activ IENT OF AMM / Ammunition	vity/Serial No:		P-1 Line SIMUI	P-1 Line Item Nomenclature: SIMULATOR PROJ GND BURST M115A2 (E49700)	ure: ND BURST 700)		Weapon System Type:	em Type:	Date: Febri	February 1998
	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	oty.	UnitCost
AG YANG GY I TO EITH WAY	H	\$000	Each	\$	\$000	Each	\$	\$000	Each	€9	\$000	Each	÷
AMMUNITION HARDWARE Load, Assemble and Pack *Fuze Powder, Type I (LB)		1877	308069	6.09	41	255560	4.48 3.12	2172	425147	5.11			
SubTotal AMMO Hardware		1877			1144			2172					
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support CAWCF Gain/Loss Surcharge	·	58 3 22 7 7 80 80	<u>-</u>		8 4 5 7 1 E			222 52 25 16 16			87 10		
SubTotal Prod. Support		513			205			345			26		
COST - Nonrecurring *Government Furnished Material SubTotal COST-Nonrecurring													
TOTAL		2390		7.76	1349		5.28	2517		5.92	76		
	\dashv	7	\dashv										

Exhibit P-5a,	a, Budget Procurement History and Planning	History	and Planning					Date: Febi	February 1998	, g
Appropriation / Budget Activity/Serial No:		Weapon System Type:	tem Type:		-1 Line Iten	P-1 Line Item Nomenclature:	:ure:			
PROCUREMENT OF AMMUNITION / 1 / Ammunition					SIMI	JLATOR PR	SIMULATOR PROJ GND BURST M115A2 (E49700)	T M115A2	(E49700)	_
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	ΑΤΑ	Unit Cost	Specs [Date RF Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	€9	Now?	Avail	
Load, Assemble and Pack FY 96	Lance Ordnance	C/FP	00	May-96	Nov-96	308069	6.09			
FY 97	Mayo, FL Lance Ordnance	C/FP	20	Feb-97	Aug-97	255560	4.48	≺es		Oct-96
FY 98	Mayo, FL TBS	C/FP	. 20	Mar-98	Mar-99	425147	5.11	×es		Oct-97
*Fuze Powder Type I FY 96 FY 97 FY 98	Stock Issue Stock Issue Stock Issue	8 8 8 8 8 8 8 8 8	N/A N/A	X	4 4 4 2 2 2	68 57 94	Z Z Z	4 4 4 2 2 2	<u> </u>	Z Z Z Z Z Z
REMARKS: TBS - To be Selected *Government Furnished Material]	-	

							P-1	P-1 Item Nomenclature:	omer	ıclatu	re:						į	•		Ω	Date:							Γ
FY 98 / 99 BUDGE I PRODUCTION S		NOIL		CHEDULE	ш			"	SIMULATOR PROJ GND BURST M115A2 (E49700)	ATOR	PRO	GND	BUR	STM	15A2	(E49	(00)							Febru	February 1998	86		
				DBROC	ACCEP	Ļ				Fis	Fiscal Year 98	ear	86							F	sca	Fiscal Year 99	36 Jŧ	L			H	
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	2	96P	A	308	308							\vdash	\vdash							-		ļ_	L			H	H	T
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		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No.	erial No:					P-1 Item Nomenclature:	ure:					
ă	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	ımunition					AMMO COM	AMMO COMPONENTS, ALL TYPES (EB0016)	ES (EB0016)		
Program Elements for Code B Items:	ms.			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FV 2002	EV 2003	To Complete	Total Bree
Proc Qty									2002	2027	B) S CO	100
Gross Cost	753.5	5.5	2.1	1.2	4.7	7.2	7.0	6.9	7.0	7.1	0.0	802.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	753.5	5.5	2.1	1.2	4.7	7.2	7.0	6.9	7.0	7.1	00	802.2
Initial Spares												
Total Proc Cost	753.5	5.5	2.1	1.2	4.7	7.2	7.0	6.9	7.0	7.1	8	802.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

This budget line includes all Ammo Components/Support items.

		П		П		
900	rebruary 1996		UnitCost	000\$		•
Date:	Lepi	FY 99	Qty	Each		
			TotalCost	000\$. 1007	1241
Weapon System Type:			UnitCost	\$000		
		FY 98	Qty	Each		
0000	ALL TIPES		TotalCost	000\$	933	2 /*
P-1 Line Item Nomenclature:	COMPONENTS, (EB0016)		UnitCost	000\$		
P-1 Line Ite	AINIMC	FY 97	Qty	Each		
			TotalCost	000\$	1061	
/Serial No:	ONITION 11		UnitCost	\$000		
get Activity	Ammunition	FY 96	Qty	Each	·	
Appropriation/ Budget Activity/Serial No:	PROCUREME ,		TotalCost	\$000	1592	661.2
Γ		۵	CD	П		
Exhibit P-5, Weapon	Ammo Cost Analysis	Ammunition	Cost Elements		WEAPON COMP IN SPT OF PROOF/ACPT TESTING	OIAL

		Exhibit P-4	0, Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	eriał No:					P-1 Item Nomenclature:	ure:					
ه .	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	munition				8	MPONENTS FOR F	COMPONENTS FOR RENOVATION OF FIELD STOCK (EA0500)	ELD STOCK (EA05	(00)	
Program Elements for Code B Items:	ems:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Brod
Proc Qty											222	801
Gross Cost	495.0	4.4	0.5	0.1	4.6	6.2	6.0	5.9	6.0	6.1	0:0	534.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	495.0	4.4	0.5	0.1	4.6	6.2	6.0	5.9	6.0	6.1	0.0	534.8
Initial Spares												
Total Proc Cost	495.0	4.4	0.5	0.1	4.6	6.2	6.0	5.9	6.0	6.1	0.0	534.8
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

These components are used to support the renovation of ammunition items currently in the Army inventory. All components are centrally managed and procured by the Industrial Operations Command. Items support worldwide ammunition requirements in order to maintain the inventory in a serviceable status ready for issue to the troops.

JUSTIFICATION:

apply the component and the capability of the storage, distribution and transportation system to move the end item and component if necessary. The components are The requirements determination takes into consideration the need for the end item to which the component applies, the capability and the capacity of the workforce to required to bring stocks that are no longer in an issuable condition back to an issuable condition. The alternative is to fill requirements with new procurement. It is much more cost effective to correct most stockpile deficiencies through renovation than through new procurement.

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No.	get Activity	/Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:	10 10 11		Weapon System Type:		Date:	000
Ammo Cost Analysis		PROCUREMENT OF AMMONTTON / 1 / Ammunition	Ammunition				FIELD STOCK (EA0500)	0500)					uary 1990
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost ·	Qty	UnitCost	TotalCost	۵ty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	000\$	\$000	Each	\$000	000\$	Each	\$000	000\$	Each	\$000
Components for Renovation of Field Stock		543			100			4622			6234		
SUB-TOTAL		543			100			4622			6234		
TOTAL		10 EX			100			4622					
	1												

Item No. 44 Page 4 of 6 361

		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature:	ure:					
a.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	ımunition				A	WEAPON COMP IN SPT OF PROOF/ACPT TESTING (EA1200)	PT OF PROOF/ACP	T TESTING (EA120	. (00	
Program Elements for Code B Items:	ems:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prod
Proc Qty												6: 1::
Gross Cost	38.4	1.1	1.6	1.1	0.1	1.0	1.0	1.0	1.0	1.0	0.0	47.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	38.4	1.1	1.6	1.1	0.1	1.0	1.0	1.0	1.0	1.0	0.0	47.4
Initial Spares												
Total Proc Cost	38.4	1.1	1.6	1.1	0.1	1.0	1.0	1.0	1.0	1.0	0.0	47.4
Flyaway U/C												
Wpn Sys Proc U/C						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
DESCRIPTION:												

These components are requisitioned from the Army Stock Fund on a reimbursable basis. Required components include mounts, tubes, breech assemblies, and other main weapon components that are not supportable by requisition objectives at test activity locations. This funding line procures weapons and weapons components required by the U.S. Army Test and Evaluation Command (TECOM) in support of ammunition testing.

JUSTIFICATION:

These weapon components are required to support proof and acceptance testing at various Army Proving Grounds. Without these components, the Army would be unable to conduct the testing required to accept ammunition end items into its inventory.

	Ì	Appropriation/ Budget Activity/Serial No:	get Activity	Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:	100%10000	_	Weapon System Type:		Date:	000
Ammo Cost Analysis		A A COORTINATION A	Ammunition		-	יייייייייייייייייייייייייייייייייייייי	TESTING (EA1200)	200)				Legal I	1890
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
S	8	بد	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost
	П	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000	000\$	Each	\$000
Weapon Comp in Spt of Proof/Acpt Testing		1592			1061			တ	· · · · · · · · · · · · · · · · · · ·		1007		
			,,,,===			1,							
		4			4			Š	-				
SUBTOTAL		786				•••••		200					
										·			
TOTAL		1592			1061			93			1007		

Item No. 44 Page 6 of 6 363

		Exhibit P-4	Exhibit P-40, Budget Item	em Justific	Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	riał No:					P-1 Item Nomenclature:	ire:					
ă.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	munition					CAD/P	CAD/PAD ALL TYPES (EA0003)	(£000		
Program Elements for Code B Items.	ns:			Code:	Other Related Program Elements:	am Elements:		:				
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	58.9	2.3	1.5	1.0	1.1	2.3	3.0	4.4	5.1	5.6	0.0	85.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	58.9	2.3	1.5	1.0	1.1	2.3	3.0	4.4	5.1	5.6	0.0	85.2
Initial Spares												
Total Proc Cost	58.9	2.3	1.5	1.0	1.1	2.3	3.0	4.4	5.1	5.6	0.0	85.2
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) are used in various escape and jettison systems on all types of Army aircraft.

JUSTIFICATION:

replacement at specified intervals. FY 99 procurement is required to assure availability of replacement items when needed and avoids grounding aircraft or rendering aircraft partially mission capable. Required to support aircraft escape and jettison systems and mission essential needs. Items are subject to shelf and service life restrictions and therefore require

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Exhi	Justificatio
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								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item		Justification Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ïe:					
ť.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MUNITION / 1 / Am	munition					ITEMS LES	ITEMS LESS THAN \$2 MILLION (EA0055)	V (EA0055)		
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	am Elements.						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	171.5	1.9	2.1	2.1	8.0	8.0	1.8	1.8	0.8	6:0	0:0	184.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	171.5	1.9	2.1	2.1	0.8	8.0	1.8	1.8	9.0	6.0	0.0	184.5
Initial Spares												
Total Proc Cost	171.5	1.9	2.1	2.1	0.8	0.8	1.8	1.8	0.8	0.9	0.0	184.5
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

This budget line includes miscellaneous ammunition items less than \$2 million.

86	FY 99	1 InitCost	\$000	0.13	
February 1998		L	╀		
Date:		\vdash	╀		
Type:		TotalCost	\$000	34 356 182	749
Weapon System Type.		UnitCost	\$000	0.13	
	FV 98	oft.	Each	1810	
LION (EA0055)		TotalCost	\$000	230 230 370 1174	801
P-1 Line Item Nomenclature: ITEMS LESS THAN \$2 MILLION (EA0055)		UnitCost	\$000		
P-1 Line Ite ITEMS LE	FY 97	Oty	Each		
		TotalCost	\$000	113 1247 1247 1247 1247	2222
'Serial No: UNITION / 1 /		UnitCost	\$000	0.50 0.50 0.50	
dget Activity ENT OF AMM Ammunition	FY 96	Q ty	Each	1200	
Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammuniton		TotalCost	\$000	1396 1396 160 404	2145
4	₽	CD			
Exhibit P-5, Weapon Ammo Cost Analysis	Ammunition	Cost Elements	C16.12 GAUGE #9 SHOT	CTG 10 GAUGE BLANK CTG CAL .22 LR MATCH F/PISTOL CTG 12 GAUGE FLASH/BANG NON-LETHAL USAMTU FT BENNING NEW EQUIPMENT TRAINING RIOT CONTROL AGENT CS CAPSULE	IOIAL

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature;	Jre;					
R	PROCUREMENT OF AMMUNITION / 1 / Ammunition	MMUNITION / 1 / Art	ımunition					AMMUNITION	AMMUNITION PECULIAR EQUIPMENT (EA0575)	ENT (EA0575)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	67.7	4.6	4.9	5.2	8.4	10.4	10.8	6.6	9.4	9.1	0.0	140.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	67.79	4.6	4.9	5.2	8.4	10.4	10.8	9.6	9.4	9.1	0.0	140.4
Initial Spares												
Total Proc Cost	67.7	4.6	4.9	5.2	8.4	10.4	10.8	9.9	9.4	9.1	0:0	140.4
Flyaway U/C												
Wpn Sys Proc U/C											,	

designed to perform cleaning and reservation functions on ammunition subjected to deterioration effects (rust, corrosion, weathering, etc) during its storage life. APE supporting surveillance is keyed to stockpile commercial sources. This equipment is different from production line plant equipment in that it disassembles ammunition items into components, usually for the removal of a hazardous component. APE is also components and reclaim salvageable parts or metals. APE is designed, developed, and fielded to support ammunition field service stocks that are currently on hand in the inventory control point and is used to chemical ammunition. These depot operations involve maintenance, demilitarization, preservation/packaging, and surveillance functions on the ammunition item. APE is not stocked nor is it available from Ammunition Peculiar Equipment (APE) is unique, low density equipment items specifically designed, fabricated, tested, procured, and adopted for use in ammunition depot operations on conventional and sampling and funding tests of the items to assure readiness for combat or training. Demilitarization APE is similar somewhat to maintenance APE but must go further in disassembly to destroy hazardous restore these stocks to an issuance/serviceable condition.

JUSTIFICATION:

DESCRIPTION

The APE and replacement parts must be on-hand to perform any of the ammunition depot operations depot operations cannot be accomplished if the Government property may result through altering of equipment to meet ammunition operations requirements. The APE is centrally managed by HQ,IOC. The equipment is loaded to worldwide locations for the required APE is not supplied in a timely manner. Ammunition readiness will be in jeopardy, public laws on environment and safety involving hazardous materiel may be violated, and a possible loss of life and facilities; Prepositioned Ships; and also to support Government-owned, contractor-operated plants as Government furnished equipment (GFE) in support of ammunition depot operations at those locations. Ammunition Maintenance Plan (ICAMP), surveillance program for lethal chemical agents and munitions; equipment for worldwide maintenance lines; equipment to support the toxic chemical maintenance accomplishment of depot type operations based on the ammunition requirements. The equipment described herein is required to support the following ammunition programs: Integrated Conventional

		Exhibit P-4	Exhibit P-40, Budget Item	em Justific	Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature:	ure:					
α.	PROCUREMENT OF AMMUNITION / 1 / Ammunition	AMUNITION / 1 / Am	ımunition			···	ш.	IRST DESTINATION	FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)	N (AMMO) (EA055	(c	
Program Elements for Code B Items:	ems:			Code:	Other Related Program Elements:	ram Elements:						
	3											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	704.5	4.8	4.3	5.3	6.4	6.2	5.3	5.2	5.3	5.4	0.0	752.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	704.5	4.8	4.3	5.3	6.4	6.2	5.3	5.2	5.3	5.4	0.0	752.7
Initial Spares												
Total Proc Cost	704.5	4.8	4.3	5.3	6.4	6.2	5.3	5.2	5.3	5.4	0.0	752.7
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												

Transportation funds are required to support procurement and distribution of Army ammunition end items from manufacturing plants or assembly points; e.g., AAP, to such as Europe and Korea training and prepositioned war reserve requirements; war reserves support to allies (Korea and Thailand); afloat prepositioned ships, etc. customers. These funds directly support training and readiness requirements of soldiers in the field (CONUS and OCONUS) to include major OCONUS programs a CONUS depot, customer, other point of first acceptance into the Army supply system or to a port for transportation to a second destination; e.g., OCONUS

							ľ					
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet			∪ate:		February 1998		
Appropriation / Budget Activity/Serial No.	ly/Serial No:					P-1 Item Nomenclature:	IFE:					
PROCURE	PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Suppor	1/2/Ammunition Pro	duction Base Suppo	¥				INDUST	INDUSTRIAL FACILITIES (EP1200)	:P1200)		
Program Elements for Code B Items:	B Items:	÷		Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty							***					
Gross Cost	4610.2	60.3	44.4	49.7	24.3	47.7	61.4	63.0	68.1	73.4	0.0	5102.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0:0	0.0	44.4	49.7	24.3	7.74	61.4	63.0	68.1	73.4	0.0	432.0
Initial Spares												
Total Proc Cost	0.0	0.0	44.4	49.7	24.3	47.7	61.4	63.0	68.1	73.4	0.0	432.0
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: The Industrial Facilities (IF) budget request contains funding for correction of environmental deficiencies at existing facilities, de future projects to meet peacetime or future requirements, and replacement of obsolete or worn production equipment and correction of infrastructure.	The Industrial Facilities (IF) budget request contains s to meet peacetime or future requirements, and replace	acilities (J ime or futur	F) budget re	equest conta	ins funding for placement of obsc	for correct: obsolete or	correction of environmental lete or worn production equi	conmental de tion equipm	deficiencies a ipment and corr	at existing rection of i	at existing facilities, rection of infrastructur	design of .e.
				FY 96	FY 97	FY 98	FY 99	_				
	Bnvironmental	1		8. 9.3	\$ 8.1	\$ 8.1	\$ 14.1					
	Production Support	upport		35.1	41.6	1,6.2	33.6	۱۵.				
	TOTAL			\$ 44.4	\$ 49.7	\$ 24.3	\$ 47.7					
JUSTIFICATION: appropriations.	Funds are used for the establishment, augmentation, and improvement of production capability for items procured under the ammun Funds also correct environmental problems, which if left unfunded would result in costly fines and penalties against the Army	for the est rrect envirc	ablishment, nmental prol	augmentatic blems, which	on, and impro i if left unf	ovement of pounded would	roduction ca result in c	apability fo costly fines	r items prod and penalt:	cured under ies against	augmentation, and improvement of production capability for items procured under the ammunition lems, which if left unfunded would result in costly fines and penalties against the Army.	uo

	Exhibit P-40C Budget Item Justification Sheet	n Justificatic	on Sheet		Late	February 1998	
Appropriation / Budget Activity/Serial No. PROCUREMENT OF /	dget Activity/Serial No. PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		P-1 Ite	P-1 Item Nomenclature	INDUSTRIAL	INDUSTRIAL FACILITIES (EP1200)	
Program Elements for Code B Items	Swei	Code	Other Related Program Flaments	ments			
LOCATION	PROJECT TITLE		PROJECT	FY 1996	FY 1997	FY 1998	FY 1999
PRODUCTION SUPPORT	<u> Net</u>						
HOLSTON ARMY Produ AMMUNITION PLANT (AAP)	ction Support and Equipment	Replacement	59X5328	2902			
IOWA AAP	Production Support and Equipment 1	Replacement	59X5333	2038	404		2240
IOWA AAP	Replace Water Main, Line 2		5993323				807
IOWA AAP	Manufacturing Management System (1	(MRP II)	5973339		2205		
LAKE CITY AAP	Production Support and Equipment 1	Replacement	59X5332	2817		703	3687
LAKE CITY AAP	Automated Data Management System		59X2956	3384	874		
LAKE CITY AAP	Recondition Case Line Number 2		5962962	1263			
LAKE CITY AAP	Small Caliber Flexible Production Line	Line	5972969		5695		
LAKE CITY AAP	Consolidation of Operations, Building	ding 3	5963326	901			
LAKE CITY AAP	Manhurin Loader Upgrade		5983330			2246	
LAKE CITY AAP	Caliber .50 Upgrade		5983331			1722	
LAKE CITY AAP	Stores, Tool/Gage and Machine Shop	Q,	5993335				1860
	Consolidation						
LAKE CITY AAP	7.62mm Upgrade/Consolidation		5973342		1878		
LONE STAR AAP	Production Support and Equipment Replacement	Replacement	59X5316	256	138		1795
LONE STAR AAP	105mm XM915/916 Dual Purpose Improved	oved	5960145	1856			
	Conventional Munitions (DPICM) La	Load, Assemble	ø,		-		
	and Pack (LAP)						
LONE STAR AAP	Replace Area 1 Heating System		5962957	987			
LONE STAR AAP	Manufacturing Management System ((MRP II)	5973336		3298		
MILAN AAP	Production Support and Equipment 1	Replacement	59X5317	1748	1676		2221
MILAN AAP	Construct Fire Station		5962700	2626			
MILAN AAP	Facilitization for 120mm High Explosive (HE)	losive (HE)	59X3320	3.7	4121		
	Mortar						

					Inate		
	Exhibit P-40C Budget Item Justification Sheet	m Justificat	ion Sheet			February 1998	
Appropriation / Budget Activity/Serial No. PROCUREMENT OF /	dget Activity/Serial No. PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		P-1	P-1 Item Nomenclature	INDUSTRIAL	INDUSTRIAL FACILITIES (EP1200)	
Program Elements for Code B Items	iems	Code	Other Related Program Elements	Elements			
LOCATION	PROJECT TITLE		PROJECT	FY 1996	FY 1997	FY 1998	FY 1999
PRODUCTION SUPPORT	<u> </u>						
PINE BLUFF ARSENAL	120mm Mortar Body Assembly Facili	ity	5960177	1192			
RADFORD AAP	Production Support and Equipment	Replacement	59X5326	1849	2375	813	3470
RADFORD AAP	stem	(MRP II)	5972871		3930	t c	, i
RADFORD AAP	Overhead Electrical Service Replace Three Acid Tanks		59X2783 5962961	1908		837	4.76
RADFORD AAP	Replace Wood Tanks, Building 419		5972965		1941		
RADFORD AAP	Replace Raw Water Supply Line, Buildings	uildings	5993322				2084
שממ השהשהמ	Renlace Natural Gas Lines		5993314				4782
RADFORD AAP	Steam Plant Claim		5973565		309		
RADFORD AAP	Hydra 70 X-Ray Equipment		5961000	629			
RIVERBANK AAP	Large Caliber Deep Drawn Cartridge Cases	ye Cases	5983311			3000	
SCRANTON AAP SCRANTON AAP	Production Support and Equipment Replacem Computer Integrated Manufacturing Support	Replacement g Support	E 59X5342 5973329	581	1735 1500		2195
HARRY DIAMOND LABORATORY	Production Support and Equipment	Replacement	E 5961924	125			
PROVING GROUND	Production Support and Equipment	Replacement	t . 59X5060	1333	1425	1400	1200
VARIOUS AAPs	Federal Energy Management Program (FEMP)	n (FEMP)	59X5201		1900		
VARIOUS AAPs	Engineering Design		59X3046	6099	6179	5493	6740
	Sub Total - Production			35,041	41,583	16,214	33,557

Production Space Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Production Support and Equipment Replacement Systate Compared National Systate Co		Exhibit P-40C Budget Item Justification Sheet	Justificat	ion Sheet		Date	February 1998	
PROJECT III.R PROJECT III.R PROJECT PV 1996 PV	Appropriation / Budget Activ	ity/Serial No.		P-1 Item	Nomenclature			
PROJECT TITLE PROJECT PV 1996 PV 1997 PV 1998 PV 1997 PV 1998	PROCUR	KEMEN I OF AMMUNITION / 2 / Ammunition Production Base Support				INDUSTRIAL	FACILITIES (EP1200)	
PROJECT TITLE	Program Elements for Code	b Nems		er Related Program Eleme	ents			
Production Support and Equipment Replacement 59X5328 2901 222 Correct Inflow/Infiltration in Sanitary Sewer 5962956 3764 3457 Industrial Wastewater Treatment 598223 3764 3457 Industrial Wastewater Equalization 598223 3157 3457 Replace Industrial Wastewater Equalization 599294 392294 3157 3457 Replace Industrial Wastewater Equalization 599294 592292 105 853 1106 Hazadous Waste/Material Process Facility 592292 105 853 1106 Hazadous Waste/Material Process Facility 592392 105 853 1106 Hazadous Waste/Material Process Facility 593337 105 853 1106 Replace Open Burn/Open Detonation (OB/OD 5993355 161 161 1277 Replace Open Burn/Open Detonation (OB/OD 5993355 161 161 1277 Production Support and Equipment Replacement 59X5317 161 1414 11277 Upgrade Composition C-4 Facility 5982312 161 1444 1144 Correct Defects in Equalization Basin 728 478 Correct Defects in Equalization Tanks 5973317 Correct Defects in C-Line Duct Work 5973347 225 Contect Deficiencies in C-Line Duct Work 5973347 225 Contect Deficiencies in C-Line Duct Work 5973347 225 Contect Deficiencies in C-Line Duct Work 5973347 225 Contect Deficiencies in C-Line Duct Work 5973347 225 Content Deficiencies in C-Line Duct Work 5973347 225 Content Deficiencies in C-Line Duct Work 5973347 225 Content Deficiencies in C-Line Duct Work 5973347 225 Content Deficiencies In C-Line Duct Work 5973347 225 Content Deficiencies In C-Line Duct Work 5973347 225 Content Deficiencies In C-Line Duct Work 5973347 225 Content Deficiencies In C-Line Duct Work 5973347 225 Content Deficiencies In C-Line Duct Work 5973347 225 Content Deficiencies In C-Line Duct Work 5973347 225 Content Deficiencies In C-Line Duct Work 5973347 225 Content Deficiencies In C-Line Duct Work 5973347 225 Content Deficiencies In C	LOCATION	PROJECT TITLE		PROJECT	FY 1996	FY 1997	FY 1998	FY 1999
Production Support and Equipment Replacement	ENVIRONMENTAL							
Industrial Watertailor in Sanitary Sewer 5962979 2901 Industrial Watertain Waterwater Treatment 5962856 3764 3457 3457 Plant-Wide Diking 5982984 3764 3157 3457 3457 Seplace Industrial Waterwater Inne 5972938 3157 3457 3457 Seplace Industrial Waterwater Equalization/ 5992994 39110 3	HOLSTON AAP	Production Support and Equipment Rep	acement	59X5328			222	
Inductrial Natewater Treatment	HOLSTON AAP	Correct Inflow/Infiltration in Sanita	ıry Sewer	5962979	2901			
Plant-Wide Diking	HOLSTON AAP	Industrial Wastewater Treatment		5962856	3764			
Neelace Industrial Wastewater Line	HOLSTON AAP	Plant-Wide Diking		5982923			3457	
Acid A Industrial Wastewater Equalization/ Spill Ponds to Concrete Tanks Production Support and Equipment Replacement 59X5333 105 853 1106 Production Support and Equipment Replacement 59X5312 Replace Open Burn/Open Detonation (DB/OD) Replace Detonation Chamber/Molton Salt to 5993357 Replace Open Burn/Open Detonation (DB/OD) Replace Detonation Chamber/Molton Salt to 5993355 Replace Detonation Chamber/Molton Salt to 5993357 Replacement Replacement 59X5312 Replacement Replacement 59X5316 161 Production Support and Equipment Replacement 59X5316 161 Production Support and Equipment Replacement 59X5317 716 411 1277 Upgrade Composition C-4 Facility 59X5313 1444 1144 Production Support and Equipment Replacement 59X5313 1444 1144 Correct Deficiencies in C-Line Duct Work 5973317 728 478 Correct Deficiencies in C-Line Duct Work 5973347 325	HOLSTON AAP	Replace Industrial Wastewater Line		5972938		3157		
Production Support and Equipment Replacement Feplacement Hazardous Maxee/Material Process Facility 592552	HOLSTON AAP	Acid A Industrial Wastewater Equaliza Spill Ponds to Concrete Tanks	tion/	5992994		,		1846
Production Support and Equipment Replacement 59X5333 105 853 1106 Hazardous Naste/Material Process Facility 592952 105 853 1106 Install Detonation Chamber/Molton Salt to 593357 105 853 1106 Replace Open Burn/Open Detonation (DB/OD 293355 293355 293355 293355 2940 2947 2947 2940 Production Support and Equipment Replacement 59X5316 161 277 2940 29700ction Support and Equipment Replacement 59X5317 716 411 1277 29700ction Support and Equipment Replacement 59X5316 2972944 29730ction Support and Equipment Replacement 59X5326 297394 29730ction Support and Equipment Replacement 59X5326 2973312 29730ction Support and Equipment Replacement 59X5326 2973312 29730ction Support and Equipment Replacement 59X5326 2973312 29730ction Support and Equipment Replacement 59X5326 2973312 20720ction Support and Equipment Replacement 59X5326 2973312 20720ction Support and Equipment Replacement 59X5326 2973312 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 59X53326 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipment Replacement 20720ction Support and Equipme								
Hazardous Waste/Material Process Facility 599352 Install Detonation Chamber/Molton Salt to Replace Open Burn/Open Detonation (OB/OD Materproofing Materproo	IOWA AAP	Production Support and Equipment Rep.	acement.	59X5333	105	853	1106	1459
Install Detonation Chamber/Molton Salt to Replace Open Burn/Open Detonation (OB/OD Replace Open Burn/Open Detonation (OB/OD Replace Open Burn/Open Detonation (OB/OD AP	IOWA AAP	Hazardous Waste/Material Process Fac	.lity	5992952				2016
Replace Open Burn/Open Detonation (OB/OD AP Equipment Retrofit for Water Based Mouth Waterproofing AP Production Support and Equipment Replacement 59X5312 161 Production Support and Equipment Replacement 59X5316 161 Production Support and Equipment Replacement 59X5317 716 411 1277 Production Support and Equipment Replacement 59X5317 716 411 1277 Production Support and Equipment Replacement 59X5326 7284 728 Production Support and Equipment Replacement 59X5326 7284 Close Bioplant Equalization Basin 59X5336 7284 Correct Deficiencies in C-Line Duct Work 5973347 325	IOWA AAP	Install Detonation Chamber/Molton Sa	t to	5993357				1792
AP Equipment Retrofit for Water Based Mouth 5993355 Waterproofing AP Production Support and Equipment Replacement 59X5312 Production Support and Equipment Replacement 59X5317 Production Support and Equipment Replacement 59X5317 Production Support and Equipment Replacement 59X5317 Production Support and Equipment Replacement 59X5326 Production Support and Equipment Replacement 59X5326 Close Bioplant Equalization Basin 5953312 Correct Defects in Equalization Tanks 5973313 Correct Deficiencies in C-Line Duct Work 5973347 325			3/OD					
AP Production Support and Equipment Replacement Production Support and Equipment Replacement Production Support and Equipment Replacement S9X5317 59X5316 161 879 AP Production Support and Equipment Replacement Upgrade Composition C-4 Facility 59X5317 716 411 1277 Production Support and Equipment Replacement Upgrade Composition Support and Equipment Replacement S9X5326 59X5326 728 478 Close Bioplant Equalization Basin Install Diffuser Correct Deficiencies in C-Line Duct Work S973313 5973312 1144 1144 Correct Deficiencies in C-Line Duct Work S973347 5973313 325	LAKE CITY AAP		outh	5993355				3994
AP Production Support and Equipment Replacement 59X5312 161 879 AP Production Support and Equipment Replacement 59X5317 716 411 1277 Production Support and Equipment Replacement 59X5327 716 411 1277 Production Support and Equipment Replacement 59X5326 728 478 Production Support and Equipment Replacement 59X5326 728 478 Close Bioplant Equalization Basin 5973312 1144 Install Diffuser 5933313 5933313 Correct Deficiencies in C-Line Duct Work 5973347 325		Waterproofing						
Production Support and Equipment Replacement 59X5316 161 411 1277 Production Support and Equipment Replacement 5972384 329 Production Support and Equipment Replacement 59X5326 728 478 Close Bioplant Equalization Basin 5973312 1144 Install Diffuser 5973312 Correct Defects in Equalization Tanks 5973347 325	LAKE CITY AAP	Production Support and Equipment Rep	acement.	59X5332		947	540	
Production Support and Equipment Replacement 5972984 329 Upgrade Composition C-4 Facility 5972984 329 Production Support and Equipment Replacement 59X5326 Close Bioplant Equalization Basin 5973312 Install Diffuser 5973312 Correct Defects in Equalization Tanks 5973347 325	LONE STAR AAP	Production Support and Equipment Repi	acement	59X5316	161		879	
Upgrade Composition C-4 Facility 5972984 329 Production Support and Equipment Replacement 59X5326 728 478 Close Bioplant Equalization Basin 5962941 1444 Install Diffuser 5973312 Correct Defects in Equalization Tanks 5993313 Correct Deficiencies in C-Line Duct Work 5973347 325	MILAN AAP		acement	59X5317	716	411	1277	1116
Production Support and Equipment Replacement 59X5326 728 478 Close Bioplant Equalization Basin 5962941 1444 Install Diffuser 5973312 Correct Defects in Equalization Tanks 5973347 325	MILAN AAP	Upgrade Composition C-4 Facility		5972984		329		
Close Bioplant Equalization Basin 5962941 1444 Install Diffuser Correct Defects in Equalization Tanks 5973313 Correct Deficiencies in C-Line Duct Work 5973347 325	RADFORD AAP	Production Support and Equipment Rep	acement	59X5326		728	478	
Install Diffuser Correct Defects in Equalization Tanks 5993313 Correct Deficiencies in C-Line Duct Work 5973347 325	RADFORD AAP	Close Bioplant Equalization Basin		5962941	1444			
AAP Correct Defects in Equalization Tanks 5993313 AAP Correct Deficiencies in C-Line Duct Work 5973347 325	RADFORD AAP	Install Diffuser		5973312		1144		
AAP Correct Deficiencies in C-Line Duct Work 5973347	RADFORD AAP	Correct Defects in Equalization Tank	_	5993313				1880
	RADFORD AAP	Correct Deficiencies in C-Line Duct 1	lork	5973347		325		

Exhibit P-40C Budget Item Justification Sheet	m Justific	ation Sheet		Date		February 1998
Appropriation / Budget Activity/Serial No. PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		P-1	P-1 Item Nomenclature	INDI	INDUSTRIAL FACILITIES (EP1200)	EP1200)
Program Elements for Code B Ilems	Code	Other Related Program Elements	Elements		·	
LOCATION PROJECT TITLE		PROJECT	FY 1996	FY 1997	FX1998	FY 1999
ENVIRONMENTAL						
SCRANTON AAP Production Support and Equipment Replacement	lacement	59X5342			126	
VARIOUS AAPS Correct Environmental Deficiencies		59X2910	224	255		
SUBTOTAL			9,315	8,149	8,085	14,103
TOTAL INDUSTRIAL FACILIT	E E S		44,356	49,732	24,299	47,660

NONI	STRIAL	FACILI	TIES CC	ST ANA	VLYSIS (Doll,	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE F	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Safety - Overhead Electrical Service, Phase II	ll es					Propellants and Explosives (Nitroglycerin and Nitrocellulose)	es (Nitroglyceri	n and Nitrocel	llulose)		
4. PROJECT NUMBER 5992783	5. ANNUAL C	SAPACITY BEFO Not Applicable	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JECT (1-8-5)				
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME			adford Arn	Radford Army Ammunition Plant	ition Plant	
					2. LOCATION				Radford	Radford, Virginia	
A. CONSTRUCTION COST			022	439	439 a. TYPE (GOGO, GOCO, COCO)	(0000 '00				GOCO	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS	l				
÷			0	0	Project Number	Title	FY &	Value (\$ mil)	Facing	Start	Compl
Ç.					5982783	Safety-Overhead Electrical	FY 98	837	o _N	Mar-98	Nov-99
б						Service, Phase 1					
SUBTOTAL EQUIPMENT COST			0	0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST			0 17 46	0 0 8 8							
F. OTHER IN-HOUSE SUPPORT COST			4	7	J. PRINCIPAL MILESTONES	TONES		Ĭ	MONTH & YEAR		
TOTAL FACILITY PROJECT COST			837	476		 CONCEPT DESIGN COMPLETE FINAL DESIGN COMPLETE INITIAL/FINAL PROJECT AWARD 	0	1 12	Aug-96 Nov-97 Mar-99/Mar-99		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST			0	0		4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	MPI ETE	. 12	Nov-00		
2. MILITARY CONSTRUCTION APPN.			0	0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE	1	. 1 4 1 4 1	Not Applicable		
NARRATIVE EXPLANATION											

This is a safety project that will bring the exterior electrical power and signal distribution systems into compliance with Army safety criteria in the Nitroglycerine-1 (NG-1), Premix Number 1, 1st Rolled Powder Area, and Green Lines explosive facility areas.

NDNI	STRIAL	FACILI	TIES CO	ST AN	NLYSIS (Dolk	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE Fe	February 1998	
2. PROJECT TITLE/TYPE Environmental-Hazardous Waste/Material Process Facility	ess Facility			3. END ITEM	3. END ITEM SUPPORTED MODEL	Medium and Large Caliber projectiles and 40 pound cratering charge	e Caliber projec	ctiles and 40 p	ound cratering	charge	
4. PROJECT NUMBER 5992952	5. ANNUAL C	APACITY BEF Not Applicable	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JJECT (1-8-5)				
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME 2. LOCATION	·		lowa Arm	Iowa Army Ammunitiion Plant Middletown, Iowa	Ammunitiion Plant Middletown, Iowa	
A. CONSTRUCTION COST				1,863	1,863 3. TYPE (GOGO, GOCO, COCO)	, (0000)				9000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS					
-				0	Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date
						Not Applicable					
б											
SUBTOTAL EQUIPMENT COST				0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST				0 41 112							
F. OTHER IN-HOUSE SUPPORT COST	, ,				J. PRINCIPAL MILESTONES	STONES 1 CONCEPT DESIGN COMPLETE	11	Δ	MONTH & YEAR	œ	
TOTAL FACILITY PROJECT COST				2,016	-	2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD	2 Q		Nov-97 Feb-99/Feb-99		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST				0 0		4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE		Jul-00 Not Applicable		
2. MILTARY CONSTRUCTION APPN.				-		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE			Not Applicable		
NARRATIVE EXPLANATION											

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processed and classified. HM and HW is produced as a result of all aspects of production. Currently, the HM/HW operations are scattered throughout the plant and include such items as spent solvents, explosive contaminated carbon, diatomaceous earth, ebonizing solutions, laboratory chemicals, This project will provide a facility to be used to collect and contain hazardous materials (HM) and hazardous wastes (HW) until they can be properly

spent oils, and lead sludge wastes. This effort will combine these items into one central point of control.

NONI	INDUSTRIAL FA	FACILI	TIES CC	ST AN	ALYSIS (Doll	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE F	February 1998	_
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Environmental-Acid A Industrial Wastewater Equalization/Spill Ponds to Concrete Tanks	Ponds to Co	ncrete Tanks				Research Department Explosive (RDX) High Melt Explosive (HMX)	rtment Explosiv	/e (RDX) High	Melt Explosive	(HMX)	
4. PROJECT NUMBER 5992994	5. ANNUAL (5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	FORE PROJE e	CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	(0.1ECT (1.8-5)				
			ĺ		A 10 A 2						
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME			Holston Arı	Holston Army Ammunition Plant	ition Plant	
					2. LOCATION			×	Kingsport, Tennessee	ennessee	
A. CONSTRUCTION COST				1,697	3. TYPE (GOGO, GOCO, COCO)	(0000)				0009	
B. EQUIPMENT COSTS (individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS					
÷				0	Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date
7						Not Applicable					
ന്											
SUBTOTAL EQUIPMENT COST				0					•		
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST				0 39 102	:						-
F. OTHER IN-HOUSE SUPPORT COST				80	J. PRINCIPAL MILESTONES	TONES]2	MONTH & YEAR	<u>~</u>	
TOTAL FACILITY PROJECT COST				1,846		CONCEPT DESIGN COMPLETE FINAL DESIGN COMPLETE INITIAL/FINAL PROJECT AWARD	E RO		Aug-95 Nov-97 Jan-99/Jan-99		
G. OTHER COSTS				(OO-Inc		
1. FAULT PROVE-COLLOSS 2. MILITARY CONSTRUCTION APPN.				00		 5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE 	OMPLETE		Not Applicable Not Applicable Not Applicable		
NARRATIVE EXPLANATION											
This project will replace two clay lined ponds with	spuod	with cond	rete tan	ks. Clay	lining is not a	concrete tanks. Clay lining is not adequate to prevent groundwater contamination by	oundwate	er contan	nination k	λc	
					,					•	-

the industrial wastewater in the ponds. If the ponds contaminate groundwater, the groundwater could contaminate the south fork of the Holston River which flows about 50 feet from the ponds.

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NDN	STRIAL	FACILI	TIES CO	ST ANA	ALYSIS (Dolle	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE Fel	February 1998	
2 PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Preparation of Equipment and Construction Design	Jesign						Multiple				
4. PROJECT NUMBER 5993046	5. ANNUAL CAPACIT Not App	APACITY BEFOR Not Applicable	Y BEFORE PROJÉCT (1-8-5) licable	:CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)				
ELEMENT OF COST	36 >7		80 >1	8	H. FACILITY 1 NAME					Multiple	
ELEMEN OF CO.	96	n L	р Б		1. NAME 2. LOCATION	• '				Multiple	
A. CONSTRUCTION COST	0	0	0	0	0 3. TYPE (GOGO, GOCO, COCO)	(0000)				Multiple	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS					
	0	0	0	0	Project Number	Title	FY &	Value (\$ mil)	Facing	Start	Compl Date
						Not Applicable					
ń											
SUBTOTAL EQUIPMENT COST	0	0	0	0						- L	
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST	0 0 2,972	0 0 2,590	0 0 1,995	0 0 2,969							
F. OTHER IN-HOUSE SUPPORT COST	3,637	3,589	3,498	3,771	J. PRINCIPAL MILESTONES	STONES		2	MONTH & YEAR		
TOTAL FACILITY PROJECT COST	609'9	6,179	5,493	6,740		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE	ш		Not Applicable Not Applicable		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPN	00	00	0 0	0 0		3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	RD :OMPLETE		Not Applicable Not Applicable Not Applicable Not Applicable		
									Not Applicable		•

packages, design reviews and design related analyses, preparation and incorporation of engineering change proposals, preparation of environmental evaluation to determine if categorical exclusion to the requirement for an environmental assessment (EA) or Environmental Impact Statement (EIS) is appropriate. Other design related efforts allowable under existing regulations deemed necessary to assure efficient and timely execution of facility continuation of construction design criteria, equipment and construction concept and final design, process design specifications, procurement This project will provide the annual funding increment for the Industrial Facilities (IF) Program. These funds are used for the initiation and/or projects.

NDNI	JSTRIAL	. FACIL	TIES CC	ST AN	ALYSIS (Doll	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE Fe	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Environmental-Correct Defects in Equalization Tanks	on Tanks					Propellants and Explosives (Nitroglycerin and Nitrocellulose)	ves (Nitroglyce	rin and Nitroce	llulose)		
4. PROJECT NUMBER 5993313	5. ANNUAL CAPACI Not Api		Y BEFORE PROJECT (1-8-5) licable	ECT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	1-8-5)				
					H FACILITY						
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	1. NAME			Radford Arr	Radford Army Ammunition Plant	tion Plant	
					2. LOCATION				Radford	Radford, Virginia	
A. CONSTRUCTION COST				1,629	1,629 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS					
					Project	Title	FY &	Value	Facing	Start	Compl
				0	Number		Appn	(\$ mil)		Date	Date
						Not Applicable					
øj.											
SUBTOTAL EQUIPMENT COST				0							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST				043							
E. CORPS OF ENGINEERS SUPPORT COST F. OTHER IN-HOUSE SUPPORT COST					SENCES IN FOLIONES	TOMES					
						1. CONCEPT DESIGN COMPLETE	ш	Ξ	MONING TEAK		
TOTAL FACILITY PROJECT COST				1,880		2. FINAL DESIGN COMPLETE		•	Oct-97		
G. OTHER COSTS						INITIAL/FINAL PROJECT AWARD CONSTRUCTION COMPLETE	Q.	171	Apr-99/Apr-99		
1. FACILITY PROVE-OUT COST				0			OMPLETE	12	Not Applicable		
2. MILITARY CONSTRUCTION APPN.				0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		1212	Not Applicable Not Applicable		
								•			
NARRATIVE EXPLANATION											

liner system with a field applied elastomeric liner at the Waste Acid Equalization Basin. Because of leaks in the current liner, the facility concrete tanks and the deposition of NC fines/particles in confined spaces which are inaccessible for cleaning. Alternative methods for This project is an Environmental Class 1H "Must Fund". This project provides for replacement of the leaking high density polyethylene cannot be used. Migration of acidic wastewater which contains Nitrocellulose (NC) fines/particles has resulted in the deterioration of the liner were evaluated and this is the most cost effective.

NONI	INDUSTRIAL FA	FACIL	TIES CC	ST AN	VLYSIS (Dolle	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE F	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Safety-Replace Natural Gas Line						Propellants and Explosives (Nitroglycerin and Nitrocellulose)	es (Nitroglyceri	n and Nitrocel	llulose)		
4. PROJECT NUMBER	5. ANNUAL C	APACITY BE	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	:CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
5993314		Not Applicable	ole			Not Applicable					
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME		LE.	Radford Arr	Radford Army Ammunition Plant	tion Plant	
					2. LOCATION	- '			Radforc	Radford, Virginia	
A. CONSTRUCTION COST				4,399	4,399 3. TYPE (GOGO, GOCO, COCO)	(0000 '00			ļ	0000	
B. EQUIPMENT COSTS (Individual equipment cost should be											
specified for all equipment costing more than \$0.5 million)					II. KELATED PROJECTS	OJECIS					
				-		Title	FY &	Value	Facing	Start	Compl
-				5	Number		Appn	(£ mil)		Date	Date
						Not Applicable					
, rý											
SUBTOTAL EQUIPMENT COST				0							
C. EQUIPMENT INSTALLATION COST				0							
D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST				263 263							
F. OTHER IN-HOUSE SUPPORT COST				22	J. PRINCIPAL MILESTONES	STONES		2	MONTH & YEAR	~	
						1. CONCEPT DESIGN COMPLETE	ш		Jun-97		
TOTAL FACILITY PROJECT COST				4,782		2. FINAL DESIGN COMPLETE			Nov-97	_	
						INITIAL/FINAL PROJECT AWARD CONSTRUCTION COMPLETE	<u>م</u>		Feb-99/Apr-99		
CINER COSTS PACILITY PROVE-OUT COST				0		5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE		Not Applicable		
2. MILITARY CONSTRUCTION APPN.				0	•	6. PROVE OUT BEGINS			Not Applicable		
						7. PROVE OUT COMPLETE			Not Applicable		
NARRATIVE EXPLANATION											

This project will correct a recognized safety hazard to plant personnel and operations. The possibility of a gas leakage from the piping in production and waste propellant incineration operations and correct safety deficiencies. This project provides for replacement of a 25the manufacturing area poses a particularly large potential for hazard. This project will assure reliable natural gas service to the plant year-old system (an estimated 21,000 linear feet of natural gas line piping). It further provides for the replacement of retrofit cathodic protection on an additional 14,500 linear feet of natural gas line piping.

NONI	STRIAL	FACILI	TIES CO	ST AN	ALYSIS (Dolla	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	1000 1000	
2. PROJECT TITLE/TYPE				3 FND ITEM	3 END ITEM SUBBOBIED MODE					eniuary 1990	,
ice Raw Water Supply Line, Building	408 to Buildin	g 409			מבורטיובט ואטטיוני	Propellants and Explosives (Nitroglycerin and Nitrocellulose)	es (Nitroglyceri	n and Nitrocel	(lulose)		
4. PROJECT NUMBER 5993322	5. ANNUAL C	SAPACITY BEF(Not Applicable	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JJECT (1-8-5)				
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME			Radford Arn	Radford Army Ammunition Plant	ition Plant	
A. CONSTRUCTION COST				1,916	1,916 3. TYPE (GOGO, GOCO, COCO)	(0000 '0:			Vadioi	GOCO GOCO	
STOCK THE MENT OF STATE OF STA											
specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	JECTS					
,				(Title	FY &	Value	Facing	Start	Compl
<u>.</u>				o '	Number		Appn	(\$ mil)		Date	Date
.; <u>.</u>					5326-23-006	Underground Piping Between Buildings 3002 and 3686	FY 00	478	o N	Apr-00	May-01
SUBTOTAL EQUIPMENT COST				O	5326-23-005	Underground Piping Between Buildings 700 and 3019	FY 01	762	Š	Apr-01	May-02
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST				0 115 115	5326-13-003	Replace Distribution Water Lines in Green Area	FY 03	602	Š	Apr-03	May-04
F. OTHER IN-HOUSE SUPPORT COST				10	J. PRINCIPAL MILESTONES	TONES		¥	MONTH & YEAR		
TOTAL FACILITY PROJECT COST	· · · · · · ·			2,084				•	Jul-96 Nov-97		
G. OTHER COSTS	,					3. INITIAL/FINAL PROJECT AWARD	۰.	≥	Mar-99/Mar-99		
1. FACILITY PROVE-OUT COST 2. MILITARY CONSTRUCTION APPIN				00	. 4, 0	5. EQUIPMENT INSTALLATION COMPLETE 6. PROVIDED IN TRACES	MPLETE	Z	Mot Applicable		
	:	·				o. PROVE OUT COMPLETE		2121	Not Applicable		
NARRATIVE EXPLANATION											

This project provides an uninterrupted water supply for plant operations. A failure in the existing line will stop all production in the main replace approximately 4,200 feet of 36-inch raw water line from the River Pump House (Building 408) to the Filter Plant (Building 409). plant area. The existing 36-inch raw water line has been in service for over 55 years and requires significant repairs. This effort will This project will also include the installation of new piping to connect the 36-inch line to the existing 30-inch line.

NONI	INDUSTRIAL F		TIES CC	ST ANA	TASIS (Dolle	ACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE Fi	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Infrastructure Replace Water Main Line 2	9.2						120n	120mm Tank			
4. PROJECT NUMBER 5993323	5. ANNUAL C	SAPACITY BEF Not Applicable	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	:CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)				
					1 EACH 170						
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	n. racicii r 1. NAME	•		lowa Arr	lowa Army Ammunition Plant	tion Plant	
					2. LOCATION	•			Middleto	Middletown, lowa	
A. CONSTRUCTION COST				746	3. TYPE (GOGO, GOCO, COCO)	,2, coco)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS) JECTS					
-				0	Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date
0			_			Not Applicable					
i n											
SUBTOTAL EQUIPMENT COST	·			0		٠					
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST				o 77 4							
F. OTHER IN-HOUSE SUPPORT COST				0	J. PRINCIPAL MILESTONES	TONES		¥	MONTH & YEAR	۷	
						1. CONCEPT DESIGN COMPLETE	111		Nov-96		
TOTAL FACILITY PROJECT COST				807		2. FINAL DESIGN COMPLETE		•	Nov-97		
						3. INITIAL/FINAL PROJECT AWARD	S S		Mar-99/Mar-99		
G. OTHER COSTS				C	-	4. CONSTRUCTION COMPLETE	l	•	96-voN		
1. FACILITY PROVE-DOL COST 2. MILITARY CONSTRUCTION APPN				00		6. PROVE OUT REGINS	OMPLEIE	•	Not Applicable		
						7. PROVE OUT COMPLETE			Not Applicable		
NARRATIVE EXPLANATION											

located on the North and East sides of Line 2. The pipe services 6 production buildings. The cast iron pipe has deteriorated, weakened and corroded. As a result, the pipe's water carrying capacity has been reduced approximately 40 to 50 percent. The replacement will This project will replace a water line that has had 6 breaks since January 1996. The line is a 5,300 linear foot, cast iron water main enhance fire protection service and increase the integrity of the water line.

NDNI	STRIAL	FACILI	TIES CC	ST AN	ALYSIS (Dolla	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE F	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Stores, Tool/Gage, and Machine Shop Consolidation	olidation					Ammunition Items: 7.62mm Cartridges, .50 Caliber (All Types)	ım Cartridges,	50 Caliber (All	Types)		
4. PROJECT NUMBER 5993335	5. ANNUAL C	APACITY BEF(Not Applicable	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)				
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1 NAME			lake City Army Amminition Diant	Ammini	fion Dlant	
		:	}	3	2. LOCATION			Inde	Independence, Missouri	Missouri	
A. CONSTRUCTION COST				0	0 3. TYPE (GOGO, GOCO, COCO)	20, coco)				GOCO	
B. EQUIPMENT COSTS (Individual equipment cost should be											
specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS					
				1,398	Project	Title	FY &	Value	Facing	Start	Compl
					Number		Appn	(\$ mil)		Date	Date
					3326	20mm Upgrade and	FY 96	901	ટ	Mar-97	Oct-98
7.						Consolidation					
ಣ		•			3330	Manhurin Loader Upgrade	FY 98	2,246	2	Mar-98	Feb-00
SUBTOTAL EQUIPMENT COST				1,398 3331	3331	Caliber .50 Upgrade	FY 98	1,722	Š.	Mar-98	Mar-00
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST				349 3342 104 0	3342	7.62mm Upgrade and Consolidation	FY 97	1,878	g	76-unç	99-un
F. OTHER IN-HOUSE SUPPORT COST					J. PRINCIPAL MILESTONES	TONES		Ĭ	MONTH & YEAR		
TOTAL FACILITY PROJECT COST				1,860		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE		8 1	Mar-96 Jan-97		
G. OTHER COSTS						3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE	Ω	0 IZ	Dec-98/Dec-98		
FACILITY PROVE-OUT COST MILITARY CONSTRUCTION APPN.				00		5 EQUIPMENT INSTALLATION COMPLETE B PROVE OUT BEGINS	OMPLETE		Feb-00		
						7. PROVE OUT COMPLETE		:121	Not Applicable		
						-					
NARRATIVE EXPLANATION											Ī

accommodate the new stores mission. This renovation also consists of upgrading the electrical, mechanical, and air conditioning sytems tools/gages and machine shop equipment from Building 10 to Building 3. This project involves necessary renovations to Building 12B to This project will complete the consolidation of major elements of plant operations into one building in an effort to reduce operating costs. This project will provide adequate facilities for the transfer of .50 caliber stores from Building 3 into Building 12B and relocate the in Building 12B.

NONI	INDUSTRIAL FA	FACIL	ITIES CC	ST AN	ALYSIS (Dolle	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE Fe	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
nent Retrofit for Waterbased Mouth Wat	erproofing					Ammunition Items: 7.62mm Cartridges, :50 Caliber (All Types)	m Cartridges,	50 Caliber (All	(Types)		
4. PROJECT NUMBER 5993355	S. ANNUAL C	SAPACITY BEF	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	ECT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	3JECT (1-8-5)			-	
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME 2. LOCATION		La	ke City Arr	Lake City Army Ammunition Plant Independence, Missouri	tion Plant Missouri	
A. CONSTRUCTION COST				0	0 3. TYPE (GOGO, GOCO, COCO)	, (0000)	:			0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS					
<u>.</u>				1,442	Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date
.2						Not Applicable					
ઇ		_									
SUBTOTAL EQUIPMENT COST				1,442							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST				2,147 129 0							
F. OTHER IN-HOUSE SUPPORT COST				276	276 J. PRINCIPAL MILESTONES	STONES		2	MONTH & YEAR	<u>~</u>	
TOTAL FACILITY PROJECT COST				3,994		CONCEPT DESIGN COMPLETE FINAL DESIGN COMPLETE INITIAL/FINAL PROJECT AWARD	&		Not Applicable Nov-97 Mar-99/Mar-99		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST				0		4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE		Not Applicable Jul-00		
2. MILITARY CONSTRUCTION APPN.				0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE			Not Applicable Not Applicable		
NARRATIVE EXPLANATION											

compound. The current methyl chloroform compound is ozone depleting and scheduled for phaseout. The new process is not ozone depleting and is environmentally friendly. Failure to fund this effort will stop production of small and medium caliber ammunition. This project will upgrade the 5.56mm, 7.62mm, and .50 caliber production lines to use a new cartridge case mouth waterproofing

NONI	STRIAL	FACIL	TIES CC	ST AN	ALYSIS (Dolla	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Chamber/Molten Salt to Replace Open	turn Open De	tonation					Medium and Large Caliber Projectiles, 40 pound cratering	Projectiles, 40	0 pound crateri	ing	
4. PROJECT NUMBER 5993357	5. ANNUAL C	CAPACITY BEFOR Not Applicable	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	'OJECT (1-8-5)				
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME			lowa Arn	lowa Army Ammunition Plant	tion Plant	
					2. LOCATION				Middleto	Middletown, lowa	
A. CONSTRUCTION COST				285	285 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000	
FOURMENT COSTS (Individual conjugate to the cost should be											
Specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS					
				369	Project	Title	FY &	Value	Facing	Start	Compl
					Number		Appn	(\$ mil)		Date	Date
2.						Not Applicable					
б											
SUBTOTAL EQUIPMENT COST				369							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST				0 1,071 67							
F. OTHER IN-HOUSE SUPPORT COST				Ó	J. PRINCIPAL MILESTONES	TONES		Ž	MONTH & YEAR		
TOTAL FACILITY PROJECT COST				1 792		1. CONCEPT DESIGN COMPLETE	D.	۷۱	Not Applicable		
						3. INITIAL/FINAL PROJECT AWARD	۵	1tt.	Nov-9/ Feb-99/Feb-99		
G. OTHER COSTS				•	•				Apr-00		
1. FACILITY PROVE-OUT COST				0 0		5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE	i	Not Applicable		
S. WILLIAM CONSTRUCTION APPN.				5		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		Z Z	Not Applicable		
								•			
INARRATIVE EXPLANATION											

NARRATIVE EXPLANATION

This project will construct a detonation chamber and a molten salt bath for the disposal of explosive waste. This facility will process up to current method of sectioning (cutting) of explosives. This project will also provide for the disposal of heavy metals and other hazardous 50 pounds of explosive waste at one time (a full M795 artillery round) compared to processing 5 pounds of explosive waste utilizing the substances. This facility will bring lowa Army Ammunition Plant (AAP) into compliance with the 1997 requirement to close the Open Burn/Open Detonation (OB/OD) area and will provide a savings of 50 cents-per-pound of waste when compared to off-site disposal.

NDNI	STRIAL	FACILI	TIES CO	ST ANA	LYSIS (Dolla	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1998	
2. PROJECT TITLE/TYPE Instrumentation to Support Ammunition Production Testing	tion Testina		<u> </u>	3. END ITEM	3. END ITEM SUPPORTED MODEL Initial P	NODEL Initial Production acceptance and product improvement for various ammunition items	and product impl	ovement for v	arious ammuni	ition items	
A PROJECT NUMBER	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	PACITY BEF	ORE PROJEC	CT (1-8-5)		6 ANNUAL CAPACITY AFTER PROJECT (1-8-5)	OJECT (1-8-5)				
2995060		_	A/A	(N/A					
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME		Yuma Proving	Ground & Abe	Yuma Proving Ground & Aberdeen Test Center	nter	
					2. LOCATION		Yuma, AZ and	Aberdeen Pro	Yuma, AZ and Aberdeen Proving Ground, MD	Q	
A. CONSTRUCTION COST					3. TYPE (GOGO, GOCO, COCO)	30, coco)	0909				
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)	1333	1425	1400	1200	I. RELATED PROJECTS	JECTS					
-					Project Number	Title	FY &	Value (\$ mil)	Facing	Start Date	Compl Date
Ķ		•	· · ·								
									•		
ψ.											
SUBTOTAL EQUIPMENT COST	1333	1425	1400	1200							
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST					J. PRINCIPAL MILESTONES	TONES	ļ	W	MONTH & YEAR	æ	
TOTAL FACILITY PROJECT COST	1333	1425	1400	1200		CONCEPT DESIGN COMPLETE FINAL DESIGN COMPLETE INITIAL/FINAL PROJECT AWARD	л &		N/A N/A Jan-99		
G. OTHER COSTS						4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	arra ignoc		9		
2. MILITARY CONSTRUCTION APPN.											
NARRATIVE EXPLANATION											

Ammunition acceptance testing require support from diverse facilities, equipment and instrumentation. The funds at Yuma will be used to replace machine and weld shop equipment, and continuation of upgrade of platform refrigeration package. At Aberdeen funds will Yuma Proving Ground and Aberdeen Test Center perform and report results of production acceptance tests for ammunition end items. procure instrumentation to support firing tests.

NDNI	INDUSTRIAL FA	FACILI	TIES CC	ST AN	VLYSIS (Doll,	CILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL	Load, Assemble, and Pack (LAP) of Primers, Detonators, Delays,	and Pack (LAP) of Primers, [Detonators, Del	lays,	
Production Support and Equipment Replacement	sement					Fuzes, and Volcano Items Including M98 Detonator, M53 Delay, and M55 Detonator	s Including M9	8 Detonator, I	ฟ53 Delay, and	l M55 Detona	tor
4. PROJECT NUMBER 5995316	5. ANNUAL CAPACI Not Ap	APACITY BEF Not Applicable	TY BÉFORE PROJECT (1-8-5) plicable	CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)				
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME		_	ne Star Ar	Ope Star Army Amminition Diant	fion Dlant	
			}		2. LOCATION		3	פפו	Texarkar	Texarkana, Texas	
A. CONSTRUCTION COST	405	0	713	916	3. TYPE (GOGO, GOCO, COCO)					3000	,
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					1. RELATED PROJECTS	OJECTS					
<u>+</u>	0	134	112	699	Project Number	Title	FY &	Value (\$ mil)	Facing	Start	Compl
.5						Not Applicable					
ෆ්											
SUBTOTAL EQUIPMENT COST	0	134	112	699							
C. EQUIPMENT INSTALLATION COST	0	0		155							
D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST	0 0	40	23	ရှင်							
F. OTHER IN-HOUSE SUPPORT COST	0	0	0		J. PRINCIPAL MILESTONES	TONES		≥	MONTH & YEAR		
TOTAL FACILITY BOAT FOR T	717	22	020	1 705		1. CONCEPT DESIGN COMPLETE			Not Applicable		
		2	5			INITIAL/FINAL PROJECT AWARD	Q	•-	Nov-97 Mar-99/Mar-99		
G. OTHER COSTS		c	c	00				•	Sep-01		
2. MILITARY CONSTRUCTION APPN.	00	00	0 0	0		5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS	OMPLETE	•-	Sep-01 Not Applicable		
						7. PROVE OUT COMPLETE			Not Applicable		
NARRATIVE EXPLANATION											
This project will replace the compressed air drying	ed air dr	Vina Pari	inment w	hich is	secontial for n	equinment which is accountial for plant apparation and purchases 3 trailor manned attacks	+ 6 00040	roilor m	o popular	1	

This project will replace the compressed air drying equipment which is essential for plant operation and purchase 2 trailer-mounted steam boilers. Further, this effort will repave Concord Church and Old Boston Roads which provide access to the XX Testing Area (Volcano, Detonator, Grenades), and the road to Area G which provides access to Primer, Tracers, Pyrotechnic Mixes, and Expulsion Charges.

NDNI	STRIAL	FACILI	IIES CO	ST ANA	ALYSIS (Dolla	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE F	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Production Support and Equipment Replacement	sement			Load,	Assemble, and Pack (L	Load, Assemble, and Pack (LAP) of Various Ammunition and Mortar Rounds to include: 40mm Demo Kit, 60/81/120mm Mortar	tar Rounds to in	nclude: 40mn	n Demo Kit, 60	/81/120mm M	lortar
4. PROJECT NUMBER 5995317	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	APACITY BEF Not Applicable	FORE PROJE	.ct (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	JECT (1-8-5)				
ELEMENT OF COST	FY 96	FY 97	₹ 98	FY 99	H. FACILITY 1. NAME			Milan Arn	Milan Army Ammunition Plant	tion Plant	
		!			2. LOCATION	•			Milan, 16	Milan, iennessee	
A. CONSTRUCTION COST	1,013	1,458	0	1,967	3. TYPE (GOGO, GOCO, COCO)	0, coco)				0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)	646	527	1,173	838	I. RELATED PROJECTS	JECTS					
-					Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date
						Not Applicable					
SUBTOTAL EQUIPMENT COST	646	527	1,173	838							
C. EQUIPMENT INSTALLATION COST	736	39	15	398							
D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST	6 6 6	၉ ၀	g 0	118							
F. OTHER IN-HOUSE SUPPORT COST	0	0	0	0	J. PRINCIPAL MILESTONES	TONES		Σ	MONTH & YEAR	_	
TOTAL FACILITY PROJECT COST	2,464	2,087	1,277	3,321		 CONCEPT DESIGN COMPLETE FINAL DESIGN COMPLETE INITIAL/FINAL PROJECT AWARD 	Q		Not Applicable Sep-97 Jan-99/Jun-99		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST	0	o				4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	OMPLETE		Jun-00		
2. MILITARY CONSTRUCTION APPN.	0	0	0	0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE			Not Applicable Not Applicable		
NARRATIVE EXPLANATION					:						

around a production area. Five roads will be resurfaced because of extensive deterioration and three buildings will be reroofed to protect stocks. Two This effort will purchase a fluoroscope cabinet to provide 360-degree x-rays of mortar rounds. A boiler monitoring system will allow all boilers to be monitored and adjustments made from one central location, additional safety features are included. A perimeter fence will be refurbished/replaced production lines will be equipped to recycle pink water, thus reducing the volume of water to be treated.

INDL	JSTRIAL	FACILI	TIES CC	ST ANA	NLYSIS (Dolle	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1998	α
2. PROJECT TITLE/TYPE				3 FND ITEM	3 END ITEM SUPPORTED MODE					on times	
Production Support and Equipment Replacement	cement						Propellants and Explosives (Nitroglycerin and Nitrocellulose)	(Nitroglycerin	and Nitrocellul	lose)	
4. PROJECT NUMBER 5995326	S. ANNUAL C	SAPACITY BEF Not Applicable	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	ECT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)				
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	H. FACILITY 1. NAME 2. LOCATION			Radford Ar	Radford Army Ammunition Plant Radford Virginia	Ammunition Plant	
A. CONSTRUCTION COST	736	2,182	456	1,786	1,786 3. TYPE (GOGO, GOCO, COCO)	(0000)				0000 0000	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	DJECTS					
.	786	604	1,901	1,161	Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl
ci e						Not Applicable					
SUBTOTAL EQUIPMENT COST	786	604	1,901	1,161					`		
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST	270 21 36	403 54 165	752 58 0	358 58 107							
F. OTHER IN-HOUSE SUPPORT COST	0	0	0	Ö	J. PRINCIPAL MILESTONES	TONES		2	MONTH & YEAR	~	
TOTAL FACILITY PROJECT COST	1,849	3,408	3,167	3,470		1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE			May-97 Dec-97		
G. OTHER COSTS 1. FACILITY PROVE OUT COST	0	0	ō	0		3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE	ID OMPLETE	2	May-99/May-99 Aug-97 Sep.97		
2. MILITARY CONSTRUCTION APPN.	0	0	0	0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE			Not Applicable Not Applicable		٠
NABRATIVE EXPLANATION											
こうご ないてし しき せんご ないとない											

This project will rehabilitate main plant bridges 9102-1 and 9102-2 and replace the following items: Control System at the Nitric Acid Concentrator/Sulfuric Acid Concentrator (NAC/SAC); the Oil Separator System in the C-Line Production Area; the Ammonia Oxidation Plant (AOP) Tower Number 1 where nitric acid is made; and sections of railroad in the Coal Storage Area, Powerhouse Building, Acid Area, and areas surrounding the Filter Building.

SNONI		FACILIT	ries co	ST ANA	TASIS (Dolla	TRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)		1. DATE	February 1998
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL				
Production Support and Equipment Replacement	cement					Ammunition Items: 5.56mm, 7.62mm, .50 Caliber, 20mm	56mm, 7.62mm	.50 Caliber, 20n	Æ
4. PROJECT NUMBER 5995332	5. ANNUAL C	ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	FORE PROJE	CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	8-5)		
					H. FACILITY				
ELEMENT OF COST	FY 96	FY 97	FY 98	FY 99	1. NAME		Lake City A	Lake City Army Ammunition Plant	tion Plant
					2. LOCATION		ı	Independence, Missouri	, Missouri
A. CONSTRUCTION COST	2,568	759	304	1,791	3. TYPE (GOGO, GOCO, COCO)	20, coco)			0000
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS			
	0	0	1,149	1,210	Project	Title FY &	Value	Facing	Start
. 					Number	Appn	(\$ mil)		Date
2						Not Applicable			•
ń									
SUBTOTAL EQUIPMENT COST	0	0	1,149	1,210					
C. EQUIPMENT INSTALLATION COST	0	0	571						
D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST	ន ខ	00	တ ည	55 58			·····		
F. OTHER IN-HOUSE SUPPORT COST	0	0	0	0	J. PRINCIPAL MILESTONES	TONES		MONTH & YEAR	<u>«</u>
TOTAL FACILITY PROJECT COST	2,786	759	2,077	3,687		 CONCEPT DESIGN COMPLETE FINAL DESIGN COMPLETE 		May-97 Nov-97	
OTHER COSTS						3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE		Mar-99/Apr-99	
1. FACILITY PROVE-OUT COST	0	0	0	0				Sep-00	
2. MILITARY CONSTRUCTION APPN.	0	0	0	0		6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE		Not Applicable	
								No. Oppication	
NARRATIVE EXPLANATION	֓֞֟֟֝֟֝֟֝֟֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֜֟֝֝֡֡֟֝֟֜֟֝֟֜						-		:

Compl Date

> This project replaces a 20-year-old, poorly functioning accumulator on Bullet Submodule 4 in Building 1 and reconditions two unreliable, 30-year-old Case Head Turn Machines in Building 3. It replaces six Production Quality Control System Computers; 30-year-old, high-maintenance telephone operations, and replace 1 culvert on Dale Pollard Drive on which heavy trucks cannot drive. Further, it will replace the roof on Building 3, which is compressors. This effort will also upgrade 1-1/2 miles of the severely deteriorated portions of Buckner Road, which is unsafe for continued daily cable (South Plant); 40-year-old leaky water service lines (20mm, Building 139); 42-year-old Optical Crack Detector; and two 41-year-old air unrepairable, and rehabilitate the unsafe, rapidly deteriorating conductive floors of Building 1.

INDE	STRIAL	FACILI	TIES CO	ST AN	ALYSIS (Doll.	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)			1. DATE	February 1998	
2. PROJECT TITLE/TYPE				3 END ITEM	3 END ITEM SLIPPORTED MODEL						
Production Support and Equipment Replacement	cement				SOLICIA ED MODEL		Medium and Large Caliber Projectiles, 40 pound cratering	Projectiles, 4	0 pound crateri	ina	
4. PROJECT NUMBER 5995333	5. ANNUAL C	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable	ORE PROJE	.CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	OJECT (1-8-5)			,	
ELEMENT OF COST	FY 96 [.]	FY 97	FY 98	FY 99	H. FACILITY 1. NAME 2. LOCATION			Iowa Arı	lowa Army Ammunition Plant	Ammunition Plant	
A. CONSTRUCTION COST	1,321	1,048	360	1,664	1,664 3. TYPE (GOGO, GOCO, COCO)	. (0000)		ļ.	Dippinion in the control of the cont	GOCO GOCO	
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	OJECTS					
Ţ.	269	0	1,664	611	Project Number	Title	FY &	Value (\$ mil)	Facing	Start	Compl
						Not Applicable					1
ю́						ido le 1					
SUBTOTAL EQUIPMENT COST	697	0	1,664	611			· · ·				
C. EQUIPMENT INSTALLATION COST D. CONTRACTOR SUPPORT COST E. CORPS OF ENGINEERS SUPPORT COST	91	004	412 51	1,209			, N. L				
F. OTHER IN-HOUSE SUPPORT COST	0	7	0		J. PRINCIPAL MILESTONES	TONES			MONTH & YEAR		
TOTAL FACILITY PROJECT COST	2,147	1,089	2,487	3,699		CONCEPT DESIGN COMPLETE FINAL DESIGN COMPLETE	9	•	Jan-97 Nov-97		
G. OTHER COSTS 1. FACILITY PROVE-OUT COST	0	0	0	0		INITIAL/FINAL PROJECT AWARD CONSTRUCTION COMPLETE EQUIPMENT INSTALLATION COMPLETE	OMPLETE	71 1	Jan-99/Mar-99 Jun-00		
2. MILITARY CONSTRUCTION APPN.	0	0	0	0					Not Applicable		
NARRATIVE EXPLANATION											

will have truck docks constructed. An oxide of nitrogen (NOX) scrubber will be purchased and installed in the main heating plant. Friable plant laboratory that will automate the recording of tests and provide increased integrity of the results. Warehouses with only rail access replacement of the 50-year-old air compressor for the main heat plant. A new computer system will be purchased and installed in the This project includes the replacement of two water systems, a vacuum pump to improve the quality of the molten explosive, and the asbestos will be removed and replaced with non-asbestos containing insulation.

DONI	STRIAL	FACILI	TIES CO	ST AN	NLYSIS (Dolle	INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)		`	1. DATE Fe	February 1998	
2. PROJECT TITLE/TYPE				3. END ITEM	3. END ITEM SUPPORTED MODEL						
Production Support and Equipment Replacement	ement					120mm (M929, M934) , 155mm (M107, M795, M825)0	, 155mm (M10	7, M795, M82	5)0		
	5. ANNUAL C	5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)	FORE PROJE	:CT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	JECT (1-8-5)				
5995342		Not Applicable	83			Not Applicable					
ELEMENT OF COST	FY 96	76 Y3	FY 98	FY 99	H. FACILITY 1. NAME		Scranton Army Ammunition Plant	Ammunition F	Plant		
					2. LOCATION	-	Scranton, Pennsylvania	sylvania			
A. CONSTRUCTION COST	578	785	0	749 3.	3. TYPE (GOGO, GOCO, COCO)		0000				
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					I. RELATED PROJECTS	DJECTS					
	0	584	88	986	Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start	Compl Date
ಣ									•		
SUBTOTAL EQUIPMENT COST	0	584	88	986							
C. EQUIPMENT INSTALLATION COST	0	(,)		4							
D. CONTRACTOR SUPPORT COST	e c	<u>\$</u>	27 0	57							
F. OTHER IN-HOUSE SUPPORT COST	0				0 J. PRINCIPAL MILESTONES	TONES			MONTH & YEAR		
						1. CONCEPT DESIGN COMPLETE	***	•	n/c		
TOTAL FACILITY PROJECT COST	581	1735	126	2195		 FINAL DESIGN COMPLETE INITIAL/FINAL PROJECT AWARD 	Q.	• •	Nov-97 Jan 99/Mar 99		
G. OTHER COSTS								•	Aug-01		
1. FACILITY PROVE-OUT COST	0		0 0	0 0			OMPLETE	•	Sep-01		
2. MILITARY CONSTRUCTION APPRIL	5	5				PROVE OUT COMPLETE		• •	n/c		
NARRATIVE EXPLANATION											

surface drainage collection throughout the facility which are all in a state of deterioration from 90 years of use and modifications. This capability of the Heat Treat Facility. This effort will further provide for the rehabilitation of storm drains, drainage, piping, and paved project will also replce the existing Pneumatic Conveyance System and will provide for structural repair to the Aceco Yard Crane. This project will provide for rehabilitation of the deteriorated heat treat cooling tower which is critical to the continued operational

								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No. PROCUREMENT OF A	dget Activity/Serial No: PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support	V / 2 / Ammunition Pro	oduction Base Suppo	ŗ		P-1 Item Nomenclature:	ture:	LAYAWAY OF	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)	TIES (EP2000)		
										(
Program Elements for Code B Items:	ltems:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prod
Proc Qty												
Gross Cost	470.3	32.5	12.7	21.1	16.4	15.4	7.0	7.1	6.8	6.1	0:0	595.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	470.3	32.5	12.7	21.1	16.4	15.4	7.0	7.1	6.8	6.1	0.0	595.4
Initial Spares												
Total Proc Cost	470.3	32.5	12.7	21.1	16.4	15.4	7.0	7.1	6.8	6.1	0:0	595.4
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: This line provides for the preserving, current production. Funding is required as follows:	line providen n. Funding is	s for the pr s required a	eserving, st s follows:	storing, and	disposing of	industrial	facilities	and equipmen	nt that are	no longer r	and disposing of industrial facilities and equipment that are no longer required to support	upport
dadwin moarodd						i						
ENCORY, NOTERN 59X4050 INDUST LAYANY OWNER	DER INDUSTRIAL OPERATIONS COMMAND (IOC) LAYAWAY AND/OR REDISTRIBUTION OF GOVERNMENT OWNED EQUIPMENT IN GOVERNMENT OWNED PLANTS	ONS COMMAND ISTRIBUTION N GOVERNMENT	(IOC) OF GOVERNMEN OWNED PLANT	Εū		15.3 (9.9) (3.5) (1.9)	DECONTAMINATION LAYAWAY MODIFIED CARETAKER	FION RETAKBR				
59X9589 INDUST LAYAN OWNEI TOTAL PROGRZ	INDUSTRIAL OPERATIONS COMMAND (IOC) LAYAWAY AND/OR REDISTRIBUTION OF GOVERNMENT OWNED EQUIPMENT LOCATED IN CONTRACTOR PLANT TOTAL IOC LAYAWAY OF INDUSTRIAL FACILITIES PROGRAM EXECUTIVE OFFICE (PEO) TOTAL LAYAWAY	ONS COMMAND ISTRIBUTION OCATED IN CO DF INDUSTRIA OFFICE (PEO)	(10C) OF GOVERNMEN NTRACTOR PLA L FACILITIES	EL SELVI		0.1 (0.0) (0.1) (0.0) 15.4 15.4	DECONTAMINATION LAYAWAY MODIFIED CARETAKER	TION \estaker				

JUSTIFICATION: Funds are used for the protection and preservation of equipment and facilities no longer required for active production but must be retained for possible future peacetime or replenishment production needs. Included are those funds needed to cover the packaging, handling, and transportation (PCH&T) costs for moving equipment to a disposal point or storage site; decontamination; and plant clearance requirements.

	Exhibit P-40C Budget Item Justification Sheet	em Justific	ation Sheet	Date	February 1998
Appropriation / Budget Activity/Seriat No. PROCUREMENT OF A	dget Activity/Seriat No. PROCUREMENT OF AMMUNITION /2/Ammunition Production Base Support			P-1 Item Nomenclature	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)
Program Elements for Code B Items		Code	Other Related Program Elements	ım Elements	
LOCATION	PROJECT TITLE		PROJECT	i El	<u>FY 1999</u>
Iowa Army Ammunition Plant (AAP), Milan AAP, Lone Star AAP,	Retain (RT) - Layaway (Lwy) Minor Efforts	finor finor	59X8000		.200
Milan AAP, Lone Star AAP, Iowa AAP, Lake City AAP	Downsize (DS) - Packaging, Crating, Handling, and Transportation (PCH&T (Various)	rating, (PCH&T)	59X8200	00	.102
Badger AAP Baraboo, WI	DS - Disposal of Facilities		5998907	07	1.614
Holston AAP Kingsport, TN	DS - Safety - Asbestos Removal, Plant-Wide	al,	5998708	80	1.169
Holston AAP Kingsport, TN	RT - Lwy, Decontaminate, and Preserve Research Department Explosive/High Melt Explosive (RDX/HWX), Acid Production Equipment, and Support Facili	יי פ רו ה ה ה		50	6.714

	Exhibit P-40C Budget Item Justification Sheet	tem Justific	ation Sheet	Date	
Appropriation / Budget Activity/Serial No. PROCUREMENT OF /	rdget Activity/Serial No. PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support	<u> </u>	P-1 Item Nomenclature	enciature LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)	
Program Elements for Code B Items		Code	Other Related Program Elements		
MOTE ROOT	ם אחדה הימד /ממ				
LOCATION			PROJECT	FY 1999	61
Joliet AAP Joliet, IL	DS - Transition Load, Assemble, and Pack (LAP) Facility in Accordance with Public Law (PL) 104-106	le, and dance with	5998906	1.618	
Lake City AAP Independence, MO	DS - Transition to Modified Caretaker, Phase 3	Caretaker,	5998921	1.873	
Longhorn AAF Marshall, TX	DS - Disposal of Facilities		5998908	1.997	
Olin, Alliant, KDI Precision Products	RT - Lwy Minor Efforts Under	\$50,000	59X9000	. 075	
	∢ ⊢ ⊖	II		15.362	
			·		

		Exhibit P-4	0, Budget It	em Justific	Exhibit P-40, Budget Item Justification Sheet			Date:		February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ire:					
PROCUREME	PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support	/2/Ammunition Pro	oduction Base Suppo	nt.			MAI	INTENANCE OF IN	MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (EP1500)	L FACILITIES (EP1	200)	
Program Elements for Code B Items:	ms:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	296.7	40.9	17.3	22.1	22.5	15.8	13.2	12.5	11.0	9.8	0.0	461.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	296.7	40.9	17.3	22.1	22.5	15.8	13.2	12.5	11.0	9.8	0.0	461.8
Initial Spares												
Total Proc Cost	296.7	40.9	17.3	22.1	22.5	15.8	13.2	12.5	11.0	8.6	0.0	461.8
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION												

This line provides for the maintenance of laidaway portions of active plants, care and maintenance of laidaway plants, and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at contractor-owned plants. Detailed budget estimates, by location, are provided on the Program Cost Breakdown (P-5). The following is a summary of funds required:

- (FY 99 \$ 7.1M) (1) Inactive Production Lines/Areas at Active Plants
- (FY 99 \$ 8.4M)
- (2) Inactive Production Lines/Areas at Inactive Plants
- (FY 99 \$ 0.3M) (3) Inactive Production Lines/Areas at Contractor Plants

JUSTIFICATION:

Funds are used for the maintenance of laidaway ammunition industrial facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling, and special test equipment being retained as part of approved plant equipment packages (PEPs) which are required to support future replenishment requirements. Also, includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.

Exhibit P-5, Weapon	Ì	Appropriation/ Budget Activity/Serial No:	dget Activity	/Serial No:		P-1 Line Iter	P-1 Line Item Nomenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support	NT OF AMIV Production B	IUNITION / 2 / ase Support		MAINTENA	MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (FP1500)	/E INDUSTRIAL 500)				Febi	February 1998
Ammunition	₽		FY 96			FY 97			FY 98			FY 99	
Cost Elements	ដ	TotalCost	Ωty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
INACTIVE LINES AT ACTIVE PLANTS		000\$	Each	000\$	000\$	Each	000\$	\$000	Each	000\$	000\$	Each	000\$
Crane Army Ammunition Activity (AAA) Holston Army Ammunition Plant (AAP) lowa AAP Indian Head Lake City AAP Lore Star AAP McAlester AAP Milan AAP Pine Bluff Arsenal Radford AAP Seneca/Hawthorne Army Depot		72 500 0 91 83 295 0 674 424 424 424			706 200 200 1,680 476 56 211 1,587 2,500 186			165 1,887 510 510 319 319 1,666 3,004			100 2,326 500 0 638 638 427 227 700 1,500		
SUBIOTAI INACTIVE PLANTS		3,200			7,602			9,492			7,084		
Badger AAP Cornhusker AAP Cornhusker AAP Fort Worth Corps of Engineers (CE) Indiana AAP Joliet AAP Longhorn AAP Longhorn AAP Louisiana AAP Mississippi AAP Newport Chemical Activity Ravenna AAP Riverbank AAP Scranton AAP Sunflower AAP Sunflower AAP		3,821 53 967 0 0 771 683 0 351 940 1,533 191 2,158			2,146 902 0 10 1,500 2,498 1,730 1,730 1,552 350 1,532 1,533 1,552 350 1,533			3,225 66 0 0 485 323 323 7,519 0 1,474 263 2,720 2,720 2,720			760 63 69 1,200 1,700 301 1,362 300 600 222 1100		
SubTotal		13,750			14,508			12,719			8,443		

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Exhibit P-5, Weapon System Cost Analysis

Exhibit P-5, Weapon		Appropriation/ Budget Activity/Serial No:	get Activity	Serial No:		2-1 Line Iten	P-1 Line Item Nomenclature:			Weapon System Type.		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support	IT OF AMM roduction B	UNITION / 2 / ase Support		MAINTENA	MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (EP1500)	'E INDUSTRIAL 5001				Februa	February 1998
Ammunition	₽	FY 96	FY 96			FY 97			FY 98			FY 99	
S	O O		Qty	UnitCost	TotalCost	aty	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost
		000\$	Each	\$000	\$000	Each	\$000	000\$	Each	\$000	000\$	Each	\$000
INACTIVE LINES AT CONTRACTOR PLANTS													
Alliant Techsystems, Incorporated AMRON Corporation (Antigo/Waukesha) Dayron Intercontinental Manufacturing Company (IMCO)		134 59 0			0000			216 45 13			125 45 12 117		
SubTotal		300			0			274			299		
TOTAL		17,250			22,110			. 22,485			15,826		

- Contract Contract

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								Date.				
		Exhibit P-4	0, Budget It	Exhibit P-40, Budget Item Justification Sheet	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	erial No:					P-1 Item Nomenclature:	ife:					
PROCUREME	PROCUREMENT OF AMMUNITION /2 / Ammunition Production Base Support	/2 / Ammunition Pro	oduction Base Suppo	Ę				CONVENTIONAL	CONVENTIONAL AMMO DEMILITARIZATION (EP1800)	ZATION (EP1800)		
Program Elements for Code B Items.	ms:			Code:	Other Related Program Elements:	ram Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prod
Proc Qty												
Gross Cost	158.8	104.3	93.5	95.4	91.0	98.0	91.7	90.8	92.1	93.4	0:0	1009.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	158.8	104.3	93.5	95.4	91.0	98.0	91.7	80.8	92.1	93.4	0.0	1009.0
Initial Spares												
Total Proc Cost	158.8	104.3	93.5	95.4	91.0	98.0	91.7	90.8	92.1	93.4	0.0	1009.0
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: The conventional ammunition demilitarization program funds the disposal demilitarization and resource recovery and recycling of conventional ammunition. This	conventional ar	nmunition der	militarization p	rogram funds	the disposal	demilitarization	and resource	e recovery ar	d recycling of	lenoitaevaco	mminime	12.0

recovery/demilitarization of excess, obsolete, and unserviceable ammunition. Safety demilitarization is also funded for those ammunition assets which have become unsafe for continued disposal, demilitarization, and resource recovery and recycling of conventional ammunition. This program also funds the movement of ammunition and technical support for demilitarization projects at various installations, and the commercial contracts for resource

ammunition either currently requiring demilitarization or forecast to enter the demilitarization account. In Fiscal Year 1997, demilitarization accomplishments totaled 144,022 short tons, the serviceable ammunition inventory of all Services is becoming excess to requirements. Additionally, ammunition which is in an unserviceable but repairable condition is being placed in the increasing demilitarization inventory. As the execution agent for demilitarization of ammunition from all Services, the Army must demonstrate a strong commitment to reduce the backlog Realignment and Closure (BRAC) actions - stocks must be moved into already crowded depot storage locations. Depot tiering requirements are impacted as demilitarization stocks are and provide demilitarization support for future additions of ammunition into the demilitarization account. The growth between FY 98 and FY 99 reflects reflects increased Army Working highest level ever achieved; however, an additional 251,038 short tons were generated. Future generations of ammunition into the demilitarization account are forecasted to approach demilitarization account because the cost to repair is not supported by firm requirements. The net result of the changing situation has been a tremendous increase in the quantity of demilitarization has a direct impact on the Army's ability to effectively support contingency operations. Demilitarization stocks simply get in the way of mobility operations and Base The demilitarization program has the capability to execute at funding levels well in exess of those proposed, but the proposed levels will at least minimize the worst impacts of an JUSTIFICATION: As of 30 Sep 97, the conventional ammunition demilitarization account contained over 414,000 short tons of ammunition. An increasing portion of the existing 691,809 short tons over the next 6 years. Fiscal Year 1998 accomplishments are projected to be approximately 117,000 short tons. The accumulation of ammunition requiring malpositioned for the end state assignments. There is also a safety consideration in that ammunition stocks are becoming older and potentially less stable. Capital Fund rates.

Exhibit P-5. Weapon	Γ	Appropriation/ Budget Activity/Serial No:	iget Activity/Se	rial No:		P-1 Line Item Nomenclature:	omenclature:			Weapon System Type:		Date:	
Ammo Cost Analysis		PROCUREMENT OF AMMUNITION / 2 /	ROCUREMENT OF AMMUNITION / 2	TION/2/		CON	CONVENTIONAL AMMO	4MMO				February 1998	1998
A minimum	5		FY 96	- Nodden		PY 97	DEMILLIARIZATION (EP 1800)	(EP 1800)	FY 98			FY 99	
Cost Elements	8	TotalCost	Qţŷ.	UnitCost	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost		UnitCost
		\$000	ShortTons	\$000	\$000	ShortTons	\$000	\$000	ShortTons	000\$	\$000	ShortTons	\$000
dWd/dW	CP		2,092		1,681			2,764	4,858		2,975	5,229	
RIOT CONTROL SMOKES HO COLORS ES	S S S	6,440	4,269		1,790	1,001	· · · · · ·	0 0	0		ò	, 1 0	
DEPLETED URANIUM/TUNGSTEN CARBIDE	οΩ		2,400		3,186			1,912			2,057	1,603	
PYROTECHNICS/ILLUMINATION/NON FRAG	표 :		0		535			132	246		142	265	
HE BOMBS	<u> </u>	239	1,790		12,695	21,206	•	15 053	813 17 481		836	875 18 816	
HE CAR I RIDGES HE EXPLOSIVE "D"	2 모				0	0		0			0		
BULK HIGH EXPLOSIVES	里		0		0	0		130			140	0	
HE GRENADES	오		0 0		0 0	0 0		0 7			0		
HE DEPTIFICATIONS WIV	ĒΞ	5.702	32.22		8,331	25,277		12,622	25,133		13,587	27,053	
HE MISSILES	Σ I				42			325			320		
HE PROJECTILES AND WARHEADS	<u> </u>	12,84	23,45		2,625	<u>ဖ</u> ်		6,640	12,840		7,147	13,821	
HE ROCKE IS DEMOLITION MATERIAL	ξX	67	၁ တွ		4	414		O			0	0	
HE LAND MINES	모				2,431			1,083	-		1,166		
NERT	<u> </u>	1,12	5,203		291	1,213		525	952		565	1,025	
BULK PROP PROPELLANT CHARGES AND INCREMENTS	7 U	0			0			1,303	10.00		1,402	10,76	
PROPELLENT MUNITIONS/COMPONENTS	PD	1,78	2,74		0			653			703		
SMALL ARMS AMMO THRU 20mm	SΑ		4,		906			œ į			80		
INCINERABLE MUNITIONS	SC				1,025			671	7		722	2,673	
FUZES MIII TIBI E EAMII V	לַ בַ	11 426	045 4 703		1,042	102,1		33.365	42 404		25 916	35	
NOCITED AND FAMILY	Z		4,		39,913	7		1.725			10,683		
OCONUS DEMIL	8				14,231			8,200	8,500		10,000	10,000	
								1					, - -
GRAND TOTAL		93,479	160,707		95,428	129,551		91,029	142,919		97,983	144,688	
		,											
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								Date:				
		Exhibit P-4	Exhibit P-40, Budget Item Justification Sheet	em Justific	ation Sheet					February 1998		
Appropriation / Budget Activity/Serial No:	rial No:					P-1 Item Nomenclature:	ure:					
PROCUREMEN	PROCUREMENT OF AMMUNITION /2/Ammunition Production Base Support	/2 / Ammunition Pro	duction Base Suppo	ť				ARN	ARMS INITIATIVE (EP2500)	200)		
Program Elements for Code B Items:	ns:			Code:	Other Related Program Elements:	am Elements:						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prod
Proc Qty												B
Gross Cost	115.0	0.0	44.8	29.9	24.4	4.9	4.8	4.8	4.8	4.7	0.0	238.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	115.0	0.0	44.8	29.9	24.4	4.9	4.8	4.8	4.8	4.7	0.0	238.1
Initial Spares												
Total Proc Cost	115.0	0.0	44.8	29.9	24.4	4.9	4.8	4.8	4.8	4.7	0.0	238.1
Fiyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION: The Armament Retooling and Manufacturing Support (ARMS) Initiative reuses idle capacity at active and inactive government-owned, contractor	e Armament	Retooling ar	id Manufactu	ıring Suppor	t (ARMS) Ini	tiative reuse	s idle capaci	ty at active a	nd inactive o	government-	owned, contr	actor

costs; create opportunities for small businesses; retain skills; sustain economic development, and serve as a model for defense conversion. ARMS complies with Title investment, and requires critical skills. To meet the peacetime and replenishment mission challenges of high quality production efficiencies at minimal cost, the ARMS initiative becomes a catalyst to commercialize ammunition facilities. This resulting product diversification and facility asset optimization meets the ARMS program JUSTIFICATION: The Army's ammunition industrial manufacturing base is unique. It involves handling/processing hazardous materials, represents a large objectives - primarily production process efficiency at minimal operating cost. 10 U.S.C. 2501, Note 2.

operated (GOCO) ammunition facilities through commercialization. Its objectives are to improve facility cost efficiencies (stable/lower product cost); reduce overhead

it P-5,		Appropriation/ Budget Activity/Serial No:	iget Activity/	Serial No:		2-1 Line Iten	P-1 Line Item Nomenclature:	100100	2	Weapon System Type:		Date:	4000
Ammo Cost Analysis		Ammunition Production Base Support	roduction Ba	ase Support		Y X	3) 3 A I I W I I I I I I I I I I I I I I I I	1,5000)				Legin	rebluary 1990
Ammunition	Ω		FY 96			FY 97			FY 98			FY 99	
s	8	TotalCost	aty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	H	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	000\$	Each	\$000
Financial Incentives		42,352			29,486			23,844			4,275		
Environmental Baselines		161						186			186		
Loan Guarantees		1,364	***					152			152		
Administrative Support		880			432			248			248		
TOTAL		44,757			29,918			24,430			4,861		
Active and inactive Army Ammunition Plants are currently participating in the Armament, Retooling, and Manufacturing Support (ARMS) Initiative and eligible to receive the incentives. The Army is currently validating its ammunition industrial base configuration under the Production Base Assessment. Facility eligibility may change, requiring transition and other business strategies to be developed for the ARMS program.													